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November 21, 2005

Mr. Jay Bento
City of Santa Ana Fire Department
1439 South Broadway
Santa Ana, California 92707

Sent via UPS

Subject: Confirmation Soil Borings Report
ARCO Facility No. 206
302 West First Street
Santa Ana, California

Dear Mr. Bento:

On behalf of Atlantic Richfield Company, Delta Environmental Consultants (Delta) has prepared this report summarizing the installation of three confirmation soil borings at former ARCO Facility No. 206, located at 302 West First Street in the City of Santa Ana, California (the site). The activities were conducted in accordance with the *Work Plan for Confirmation Soil Borings*, dated February 4, 2005, and the *Addendum to Work Plan for Confirmation Soil Borings*, dated June 2, 2005, which were approved by the Santa Ana Fire Department (SAFD) in a letter to Atlantic Richfield Company dated July 5, 2005. A copy of the SAFD letters are provided in Attachment A. The purpose of the assessment was to provide the SAFD with soil analytical data illustrating that petroleum hydrocarbon concentrations detected during previous assessments have been remediated and/or have attenuated. Presented herein is a brief site description, a summary of previous investigations and remedial history, a description of site geology and hydrogeology, and a summary of the drilling and sampling of three confirmation soil borings, and a recommendation for further remediation.

SITE DESCRIPTION

The site is an active retail gasoline station located on the southwest corner of the intersection of West First Street and Broadway Avenue in the City of Santa Ana, County of Orange, California (Figure 1). Station operations consist of self-serve gasoline dispensing along with an am/pm mini-mart. Four double-walled 10,000 gallon underground storage tanks (USTs) are located in the eastern portion of the site. The site is located at an elevation of approximately 110 feet above mean sea level, with surface topography sloping gently toward the southwest (USGS, 1981).

The site is located in a mixed business/residential area. The adjoining property to the south of the site is occupied by a paved parking area and an auto repair facility. The adjoining property to the west of the site is residential. Other retail stores are located to the north and east of the site, across West First Street and Broadway.

SITE HISTORY

A gasoline release was reported on June 9, 1992, to the SAFD, UST Division. The release was reported to have occurred from a leaking impact valve on the No. 6 dispenser. ARCO requested a site investigation be performed to determine the extent of the release.

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On September 10, 1992, SEACOR supervised the drilling and sampling of one angled soil boring (B-1) to the east of the southern dispenser. Soil boring locations are presented in Figure 2. The angle boring was drilled at a 25 degree angle from vertical and was advanced to a total depth of 47 feet below ground surface (bgs) along the line of drilling. Soil samples were collected at five-foot depth intervals, and screened in the field for volatile organic compounds using an organic vapor analyzer. Field observations indicated that petroleum hydrocarbons were present in the soil from a depth of approximately 12 feet bgs to 32 feet bgs. Concentrations of total petroleum hydrocarbons as gasoline (TPHg) were detected from 4.9 to 6,100 milligrams per kilogram (mg/kg). Detectable benzene concentrations ranged from 0.029 to 100 mg/kg (SEACOR, 1992). Soil sample analytical results are presented in Table 1.

On February 18, 19, and 23, 1993, SEACOR supervised the drilling and sampling of eight soil borings (B-2 through B-9) to depths ranging from approximately 40 to 50 feet bgs. Soil borings B-5 and B-6 were converted into soil vapor extraction (SVE) wells VW-5 and VW-6, respectively. Well construction details are presented in Table 2. Detectable concentrations of TPHg above SAFD action levels (100 mg/kg) were noted in three of the eight soil borings (B-3, B-4, and B-6). The highest TPHg concentration of 6,500 mg/kg was noted in the soil sample collected from boring B-6 at 15 feet bgs. Detectable benzene concentrations ranged from 0.0068 to 84 mg/kg. The highest benzene concentration was indicated in the soil sample collected from boring B-6 at 30 feet bgs. Groundwater was not encountered in any of the soil borings (SEACOR, 1993a).

On June 6, 1993, SEACOR performed an SVE pilot study utilizing SVE wells VW-5 and VW-6. The purpose of the test was to evaluate the effectiveness of SVE as a remedial technology for hydrocarbon impacted soils at the site. The SVE pilot test results indicated that the minimum radius of influence was approximately 30 feet. The laboratory analytical data indicated that the influent vapor sample concentration from SVE well VW-5 was 12,000 milligrams per meter cubed (SEACOR, 1993b).

During September and October, 1993, SEACOR observed the removal of four 6,000 gallon, single-walled steel gasoline USTs from the southeast corner of the site. During UST, dispenser, and piping replacement activities, a SEACOR representative collected three soil samples beneath the former dispensers (PD01, PD02A, and PD02B), ten soil samples beneath the former product lines (TR01 through TR10), seven soil samples beneath the former gasoline USTs (TK01, TK02, S01, SW01, E01, NW01, and N01), and one soil sample beneath the former waste oil UST (WTS01). Laboratory analytical results for samples collected under the former USTs indicated TPHg concentrations ranging from less than the laboratory method detection limit (MDL) on the south-southwest side of the tank excavation to 510 mg/kg on the north side of the excavation. Soil samples collected along the dispenser product lines indicated a maximum TPHg concentration of 1.9 mg/kg in the soil sample located adjacent to the middle of the northern dispenser island. The laboratory analytical data indicated a total recoverable petroleum hydrocarbon (TRPH) concentration of 1,300 mg/kg in the soil sample collected from beneath the former waste oil UST. Soil samples collected along the vent line trenches indicated a maximum TPHg concentration of 76 mg/kg at the northeast corner of the station building. Approximately 200 cubic yards of soil were removed from the former tank pit during excavation activities. All excavated soil was stockpiled on-site, and subsequently used as backfill for the UST excavation (SEACOR, 1994a).

A new UST pit was excavated near the northeast corner of the Site. Approximately 756 cubic yards of native soil were removed from the new tank excavation and stockpiled along the southeast corner of the site. Four new 10,000 gallon, double-walled fiberglass USTs were installed within the new UST pit. Approximately 1,147 tons of stockpiled soil was transported off-site to TPS in Adelanto, California for thermal treatment (SEACOR, 1994a).

On November 2, 1993, SECOR submitted a Remedial Action Plan (RAP) to the SAFD. The RAP proposed the use of SVE technology as the remedial alternative to mitigate impacted soils at the site (SECOR, 1993c).

On May 2 and 3, 1994, SEACOR supervised the drilling and sampling of five SVE wells (VW-12, VW-13, VW-14, VW-15, and VW-16) within pre-set well boxes and conductor casing installed during the tank removal operation. All wells were advanced until two consecutive soil samples, collected at five foot depth intervals, indicated either no detectable concentrations of petroleum hydrocarbons or contained detectable concentrations of petroleum hydrocarbons less than SAFD action levels. Selected soil samples were submitted to a California Department of Health Services (CDHS) certified on-site mobile laboratory for analyses. Additionally, one soil sample from each well, which contained the highest TPHg concentration, was also analyzed for organic lead. Analyses of the soil

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samples revealed that 27 of the 43 soil samples collected showed detectable concentrations of petroleum hydrocarbons. Detectable TPHg concentrations ranged from 11 to 4,413 mg/kg. The highest TPHg concentration was reported in soil sample VW-13 at 35 feet bgs. Detectable concentrations of benzene ranged from 0.102 to 22.033 mg/kg. The highest benzene concentration was reported in soil sample VW-13 at 35 feet bgs (SEACOR, 1994b).

On March 20, 1996, SECOR International Inc. (SECOR) commenced operation of a SVE system. The SVE system was connected to SVE wells VW-5, VW-6, and VW-12 through VW-16. Based on a significant reduction in influent hydrocarbon concentrations, the system was shut down on June 17, 1996. During the period from March 20 through June 17, 1996, the SVE system operated for 1,331 hours and removed approximately 4,747 pounds of hydrocarbons from the subsurface (SECOR, 1996).

On June 10, 1999, SECOR supervised the drilling and sampling of three confirmation soil borings (CSB-1, CSB-3, and CSB-4). The purpose of the borings was to confirm the effectiveness of SVE remedial efforts in reducing petroleum hydrocarbon concentrations at the site. Borings CSB-1 and CSB-4 were advanced vertically to depths of 60.5 and 50.5 feet bgs, respectively. Boring CSB-3 was advanced at an angle of 30 degrees from vertical to a depth of 60.5 feet bgs. The soil analytical data indicated that petroleum hydrocarbons exist primarily above the approximate depth of 40 feet bgs beneath the site. In the report summarizing the results of the confirmation soil borings, SECOR requested case closure be granted (SECOR, 1999).

On October 28, 1999, during fuel dispenser and piping replacement activities, a Delta representative collected soil samples beneath the former dispenser and piping locations under the direction of Inspector Jay Bento of the SAFD. Four dispenser samples were collected and identified as D1-2 through D4-2. Four piping samples were collected and identified as P1-2 through P4-2. The samples were collected at a depth of approximately two feet beneath the former dispenser and piping locations (Delta, 1999).

The SVE system was re-started on November 6, 2000. The SVE system is connected to seven wells (VW-5, VW-6, VW-12, VW-13, VW-14, VW-15, and VW-16). Laboratory analytical results indicated that influent vapors at startup contained 1,300 parts per million by volume (ppmv) volatile fuel hydrocarbons (VFH). The SVE system has been cycled on a monthly basis for over the past two years. No significant rebound in concentrations was observed following periods of temporary system shutdown. Influent vapor concentrations appear to have reached asymptotic levels. As of February 28, 2005, the SVE system has operated for 32,061 hours and has removed approximately 17,888 pounds of hydrocarbons from the subsurface. A summary of SVE system performance data is provided in Table 3, well source data in Table 4, and individual well analytical data in Table 5. A graph of VFH and benzene concentrations versus time is presented as Graph 1 and cumulative hydrocarbons removed versus time is presented as Graph 2.

SITE GEOLOGY AND PHYSIOGRAPHY

The site is located in the Santa Ana Gap, which lies between the Newport and Huntington Mesas (DWR, 1966). The Pacific Ocean is located approximately 8.5 miles southwest of the site. The concrete-lined Santa Ana River channel is located about 2.5 miles west of the site. The area is underlain by recent alluvium deposited by the Santa Ana River, by Santiago Creek from the Santa Ana Mountains, and by minor streams from hills to the north and northeast (DWR, 1959).

The lithology beneath the site is characterized by fine to coarse grained sands with interbedded silt and clay lenses. Subsurface materials are composed of fine to coarse grained sand to a depth of approximately 11 feet. A sandy silt/silty sand layer is present from approximately 11 to 30 feet bgs. The silty layer is underlain by a clay layer to about 40 feet bgs. Silty sand, sand, and gravel are present from approximately 40 to 60 feet bgs (maximum depth explored).

SITE HYDROGEOLOGY

The site is located within the pressure area of the Orange County Coastal Plain Groundwater Basin. A large synclinal groundwater basin underlies the Coast Plain of Orange County and is composed of a pressure and non-pressure area. The non-pressure, or forebay, area is located on the northeastern portion of the basin and supplies the recharge, both artificial and natural, to the aquifer systems. The southwestern area of the basin consists of a pressure area where

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groundwater is confined in multiple aquifers (DWR, 1959). The northern boundary for the Forebay/Pressure Area is located north of Santa Ana, and runs approximately parallel to the Interstate 5 freeway.

Groundwater flow in the coastal plain is from the forebay to the pressure area, with subsurface discharge to the Pacific Ocean during periods when piezometric levels are above sea level. Subsurface outflow occurs primarily at the Santa Ana and Alamitos Gaps in aquifers not affected by faulting (DWR, 1959). Principal aquifers are the Talbert aquifer of Recent age in the Santa Ana Gap, and its correlative Bolsa Aquifer in the northwesterly portion of the basin, ranging from 50 feet to nearly 200 feet bgs (DWR, 1960).

Locally, near surface groundwater occurs in unconfined perched aquifers. Perched groundwater consists largely of irrigation return and infiltration of other surface waters above the confining sediments of the deeper aquifers (DWR, 1960). Groundwater has not been encountered during advancement of soil borings at the site to a total depth of 60 feet bgs.

According to the California State Water Resources Control Board's web site (GeoTracker; <https://geotracker.swrcb.ca.gov>) database there are seven groundwater production wells within a one-mile radius of the site. The closest well to the site is State Well No. 3010038-015, which is located approximately 1,600 feet west of the site. Well 3010038-015 is an active municipal supply well owned and operated by the City of Santa Ana. State Well No. 3010038-029 is an active municipal supply well owned and operated by the City of Santa Ana and is located approximately 1,600 feet west of the site. State Well No. 3010038-033 is an inactive municipal supply well owned and operated by the City of Santa Ana and is located approximately 2,000 feet west of the site. State Well No. 3010038-042 is an active municipal supply well owned and operated by the City of Santa Ana and is located approximately 1,800 feet northeast of the site. State Well No. 3010038-041 is an active municipal supply well owned and operated by the City of Santa Ana and is located approximately 1,800 feet northeast of the site. State Well No. 3010038-018 is an active municipal supply well owned and operated by the City of Santa Ana and is located approximately 2,500 feet northwest of the site. State Well No. 3010038-055 is an inactive municipal supply well owned and operated by the City of Santa Ana and is located approximately 4,200 feet northwest of the site.

CONFIRMATION SOIL BORING ADVANCEMENT

On October 13, 2005, a Delta geologist was on-site to oversee the advancement of three confirmation soil borings (CSB-5, CSB-6, and CSB-7). The locations of the confirmation soil borings are presented on Figure 2. Boring CSB-5 was drilled north of the existing UST locations. Analytical results of soil samples collected from borings CSB-1, CSB-3, and VW-6, located north of the existing USTs, indicated the highest concentrations of petroleum hydrocarbons beneath the site. Boring CSB-6 was drilled west of the existing UST locations in the vicinity of boring B-8 and SVE wells VW-14 and VW-15. Boring CSB-7 was drilled south of the existing UST locations in the vicinity of boring CSB-4 and SVE well VW-12.

The boring locations were marked and Underground Service Alert was notified prior to the initiation of the field investigation. Strongarm Environmental Field Services of Norwalk, California was contracted to provide the necessary equipment and personnel to advance the borings. A private utility locating company was contracted to locate underground utilities on site prior to the initiation of drilling. The initial ten feet of the soil borings were advanced using a truck-mounted VacMasters Air Vacuum Extraction System in order to reduce the possibility of damaging unidentified underground utilities. The soil borings were advanced past the initial ten feet using a truck-mounted, direct-push Geoprobe™ rig.

Soil borings CSB-5, CSB-6, and CSB-7 were each advanced to an approximate depth of 50 feet bgs. Groundwater was not encountered during the advancement of the borings. During advancement, Delta collected soil samples for chemical analysis at five-foot intervals from ten feet bgs to the terminal depth of each boring. To avoid cross contamination between samples, sampling equipment was washed with an aqueous solution of Alconox™ detergent and double rinsed with distilled water. Soil samples were collected using a 1½-inch diameter piston sampler with 1⅓-inch diameter by 1.5-foot long acetate liner. The bottom-most 6-inches intact portion of the acetate liner from each sample collected was cut from the remaining acetate liner, lined with Teflon™ sheets, capped, labeled, placed in a resealable plastic bag, and stored in an ice-chilled container until delivered to the analytical laboratory.

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Soil remaining in the acetate sampling liner was used for classification according to the Unified Soil Classification System and for field screening with a photo-ionization detector (PID). Soil classifications, PID readings, and other soil sampling data are presented on the boring logs in Attachment B. Following completion, each boring was backfilled with bentonite grout and resurfaced with concrete.

WASTE CONTAINMENT AND DISPOSAL

All soil cuttings and decontamination water generated during soil boring activities were placed in Department of Transportation-approved, 55-gallon, metal drums, labeled, and stored on-site pending analytical results. Upon receipt of soil analytical results, the drums were transported by Belshire Environmental Services to TPS Technologies located in Adelanto, California for disposal. The soil disposal documentation is included in Attachment C.

SAMPLE ANALYSIS

Soil samples were submitted to Del Mar Analytical, a CDHS approved analytical laboratory located in Irvine, California. Each sample was analyzed for TPHg according the Environmental Protection Agency (EPA) Method 8015 Modified and for benzene, toluene, ethylbenzene, xylenes (BTEX, collectively), methyl tertiary butyl ether (MTBE), di-isopropyl ether (DIPE), ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butanol (TBA), and ethanol according to EPA Method 8260B.

CONFIRMATION BORING RESULTS

Laboratory analysis of soil samples collected during the installation of soil boring CSB-5 indicated no detectable concentrations of MTBE, DIPE, ETBE, TAME, TBA, or ethanol. Detectable concentrations of TPHg were observed in the 15- to 30-foot interval at concentrations ranging from 470 to 15,000 mg/kg. Detectable concentrations of benzene were observed in the 25-, 30-, and 35-foot samples collected from boring CSB-5 at 56, 24, and 1.4 mg/kg, respectively.

Laboratory analytical results of soil samples collected during the installation of soil boring CSB-6 indicated no detectable concentrations of TPHg, BTEX, DIPE, ETBE, TAME, TBA, or ethanol. Detectable concentrations of MTBE were observed in the 30-, 35-, and 40-foot samples at 0.041, 0.12, and 0.047 mg/kg, respectively.

Laboratory analytical results of soil samples collected during the installation of soil boring CSB-7 indicated detectable concentrations of TPHg and BTEX in the 25- and 30-foot samples. The 25-foot sample indicated TPHg and benzene concentrations of 1,600 and 0.97 mg/kg, respectively, and the 30-foot sample indicated TPHg and benzene concentrations of 1.0 and 0.10 mg/kg, respectively. Detectable concentrations of MTBE were observed in the 30-, 35, and 40-foot samples at 0.019, 0.061, and 0.045 mg/kg, respectively. A detectable concentration of TBA was observed in the 40-foot sample collected from CSB-7 at 0.14 mg/kg. Soil analytical results are presented in Table 1 and the laboratory report and chain of custody documentation are presented in Attachment D.

CONCLUSIONS AND RECOMMENDATIONS

Previous investigations conducted at this site indicated the presence of elevated concentrations of petroleum hydrocarbons (greater than 5,000 mg/kg TPHg) in the vicinity of the existing USTs and dispenser islands. Three confirmation soil borings (CSB-5, CSB-6, and CSB-7) were advanced in the areas previously identified as having the highest concentrations. Based upon the results of this investigation it appears that petroleum hydrocarbons detected during previous investigations have not been adequately remediated. Laboratory analysis of soil samples collected during the installation of soil borings CSB-5, CBS-6, and CSB-7 indicated elevated TPHg and BTEX concentrations in the 25- and 30-foot samples collected from borings CSB-5 and CSB-7. Below 30 feet bgs, these petroleum hydrocarbon concentrations are noted to decrease significantly to between slightly above and below the laboratory detection limits. This drastic decrease in concentrations is likely due to the clay/silty clay layer observed at approximately 31 feet bgs.

An SVE system connected to seven wells (VW-5, VW-6, VW-12, VW-13, VW-14, VW-15, and VW-16) has operated at the site for 32,061 hours and has removed approximately 17,888 pounds of hydrocarbons from the subsurface. No significant rebound in concentrations was observed following periods of temporary system shutdown and influent vapor

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concentrations appear to have reached asymptotic levels (see Graph 2). However, this appears to be due to the screen intervals of the SVE wells and not the lack of hydrocarbon mass beneath the site.

The screen interval in SVE well VW-6 extends from 13 to 33 feet bgs. From 13 feet bgs to approximately 20 feet bgs sandy silt is observed and from 20 to 33 feet bgs clayey silt and silty clay are observed. Delta believes that the majority of the flow in the well is coming from the top seven feet of the screened interval which lies in the less dense sandy silt, and very little vacuum is being exerted in the clayey silt and silty clay. Similar conditions are observed in SVE well VW-15. The screen interval in well VW-15 extends from 10 to 30 feet bgs. From approximately 12 to 22 feet bgs silty sand and sand are observed and from 22 to 30 feet bgs sandy silt and silty clay are observed. Copies of the soil boring/well construction logs for wells VW-6 and VW-15 are presented in Attachment E. Delta believes that the majority of the flow in the well is coming from the 12- to 22-foot interval which lies in the less dense sand, and very little vacuum is being exerted in the sandy silt and silty clay. Therefore, Delta recommends to over-drill and remove the well casings of wells VW-6 and VW-15, and replace with new casings screened within the 25- to 30-foot zone, where elevated hydrocarbon concentrations were observed in confirmation soil borings CSB-5 and CSB-7. The wells will be constructed of 2-inch diameter, schedule 40, polyvinyl chloride (PVC) casing with a screened interval of 0.1-inch wide horizontal slotted casing. The remaining length of each well will be constructed of blank schedule 40 PVC casing. Pea gravel will be used as the filter pack from total depth to one foot above the screened interval. A minimum 3-foot bentonite seal will be constructed above the screened interval. The remaining annulus of each boring will be backfilled with bentonite chips. The new screen interval, location, and SVE radius of influence of extraction wells VW-6 and VW-15 should be sufficient to address the residual concentrations identified in confirmation soil borings CSB-5, CBS-6, and CSB-7.

Once the screen intervals of wells VW-6 and VW-15 have been reset the wells will be reconnected to the SVE system. Delta proposes to continue SVE activities with extraction efforts focused on re-installed wells VW-6 and VW-15. Upon review and approval of these recommendations by the SAFD, Delta will reset the well casing of wells VW-6 and VW-15 and restart the SVE system. The system will be monitored on a weekly basis. During weekly visits, field readings of soil vapor influent and effluent concentrations using a photo- or flame-ionization detector will be recorded. Influent and effluent vapor samples will be collected on a monthly basis for chemical analyses. SVE system operation data will continue to be presented in the on-going quarterly site status reports. The quarterly reports will include tables presenting operational data and graphs depicting hydrocarbon removal rates and volatile organic compound concentrations in vapor over time. The quarterly reports will also include information on remediation progress and a summary of system operation performance, and periodic maintenance and upgrades to the existing system.

When influent VFH and BTEX concentrations reach non-detectable levels in vapor samples, the system will be shut down for a period of approximately two weeks to allow concentrations to rebound. The system will then be restarted and influent vapor samples will be collected from each extraction well. If detectable VFH and BTEX concentrations are not observed in the influent vapor samples, the system will be shut down. If a significant rebound in VFH and BTEX concentrations is observed, cyclic operation (approximately 2 weeks on and 2 weeks off) of the SVE system will continue until an asymptotic reduction in concentrations is achieved. If no significant rebound in VFH and BTEX concentrations is observed, Delta will submit a report to the SAFD summarizing the results of system operation and rebound evaluations. Included in the report will be a request to the SAFD to discontinue SVE system operation and rationale for granting regulatory case closure for the site.

REMARKS

The recommendations contained in this report represent Delta's professional opinions based upon the currently available information and are determined in accordance with currently acceptable professional standards. This report is based upon a specific scope of work requested by the client. The Contract between Delta and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of Delta's Client and anyone else specifically listed on this report. Delta will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Delta makes no express or implied warranty as to the contents of this report.

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If you have questions or comments regarding this correspondence, please contact Aaron Baird at (949) 360-5795.

Sincerely,

DELTA ENVIRONMENTAL CONSULTANTS, INC.


Aaron Baird
Project Manager

11/21/05
Date


Dean A. Richesin
California Professional Geologist No. 3587
Certified Engineering Geologist No. 1055

11/21/05
Date



Attachments:	Figure 1	Site Location Map
	Figure 2	Site Map
	Table 1	Historical Soil Analytical Results
	Table 2	Well Construction Details
	Table 3	SVE System Performance Data
	Table 4	Individual Well Field Concentration Data
	Table 5	Individual Well Vapor Analytical Data
	Graph 1	SVE System Performance
	Graph 2	Influent VFH and Benzene Concentrations vs. Time
	Attachment A	SAFD Letters Dated March 30 and July 5, 2005
	Attachment B	Soil Boring Logs
	Attachment C	Soil Disposal Documentation
	Attachment D	Laboratory Report and Chain-of-Custody Documentation
	Attachment E	Soil Boring/Well Construction Logs for Wells VW-6 and VW-15

Cc: Mr. Darrell Fah, Atlantic Richfield Company, La Palma, California
Ms. Valerie Jahn-Bull, CRWQCB-Santa Ana Region, Riverside, California

(q:\bpwest\soical\206\csbr.doc)

REFERENCES

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SEACOR, (1994b), Vapor Extraction Well Installation, dated June 23, 1994.

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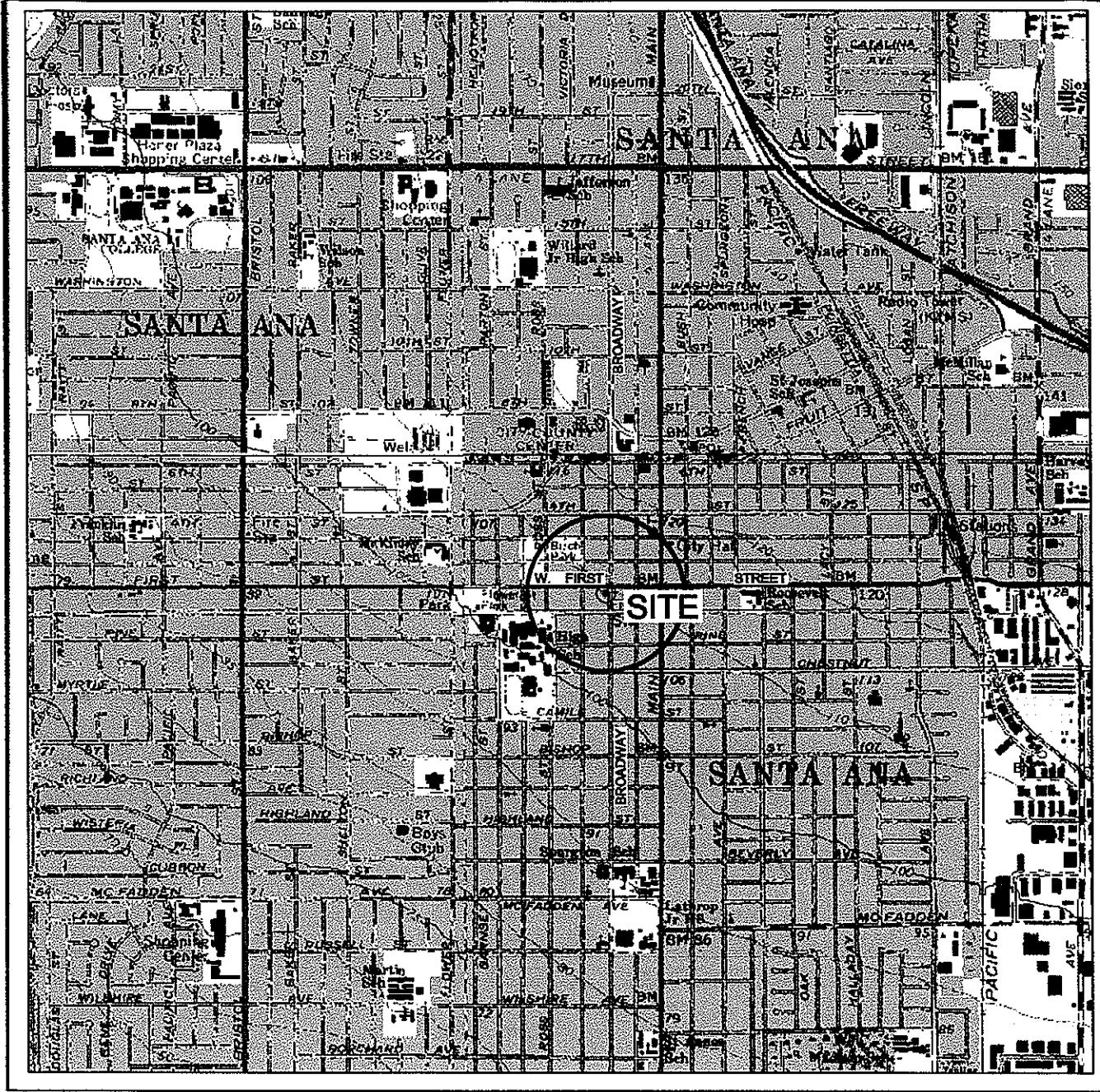
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State of California, Department of Water Resources (DWR, 1960), Quality of Ground Waters in California, Southern California, Bulletin No. 66-60, April 1960.

State of California, Department of Water Resources (DWR, 1966), Santa Ana Gap Salinity Barrier, Orange County, Bulletin No. 147.1, December 1966.

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GENERAL NOTES:

BASE MAP FROM 3-D TOPO QUADS
TUSTIN AND NEWPORT BEACH, CA. QUADRANGLE
7.5 MINUTE TOPOGRAPHIC MAP
1965
PHOTOREVISED 1981



QUADRANGLE LOCATION

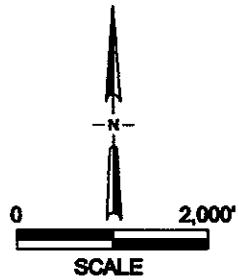


FIGURE 1

SITE LOCATION MAP
ARCO FACILITY NO. 206
302 W. FIRST STREET
SANTA ANA, CA.

PROJECT NO. 00725	DRAWN BY K. MARTIN	 <p>Delta Environmental Consultants, Inc.</p>
FILE NO. A0-725-03	PREPARED BY A. BAIRD	
DATE 04 JAN 05	REV. 0	



WEST FIRST STREET

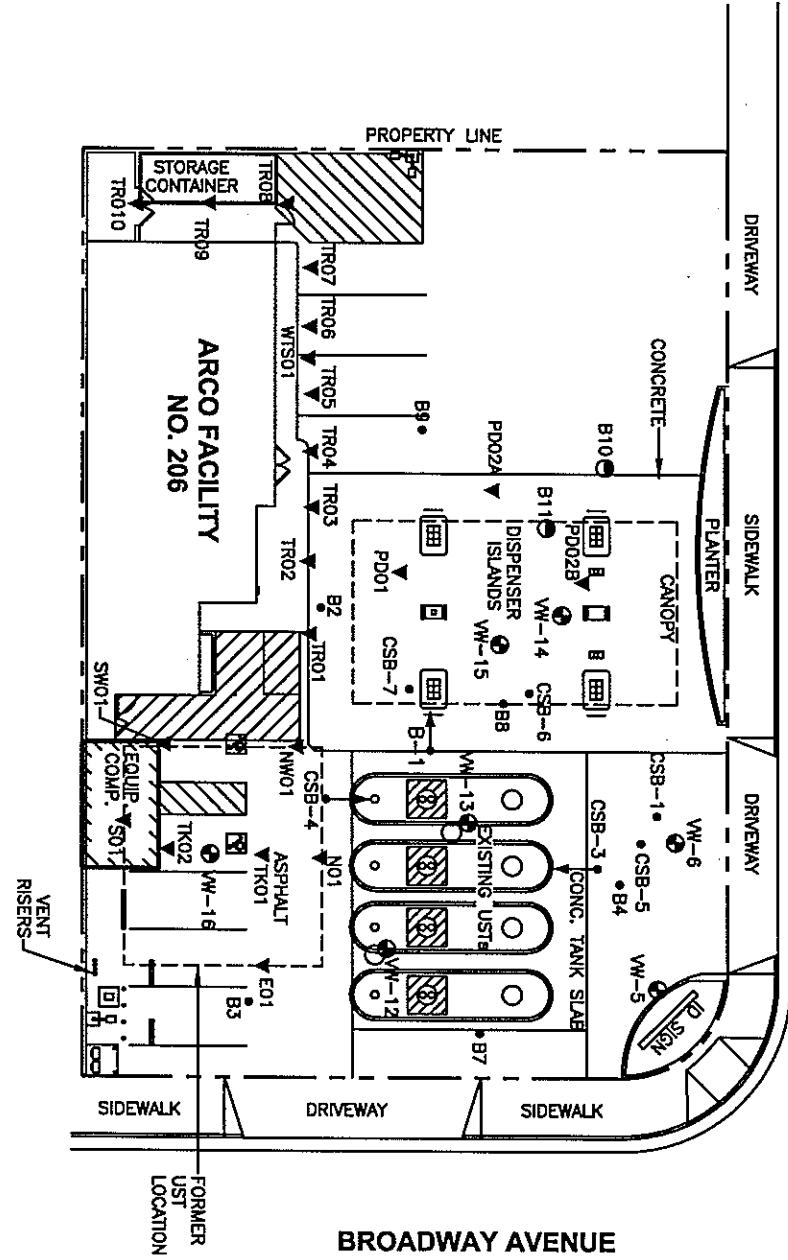


FIGURE 2
SITE MAP

ARCO FACILITY NO. 206
302 W. FIRST STREET
SANTA ANA, CA.

- LEGEND**
- VW-5 VAPOR EXTRACTION WELL LOCATION
 - CSB-1 • SOIL BORING LOCATION
 - B10 ◑ HAND AUGER LOCATION
 - PDO1 ▶ ANGLED SOIL BORING LOCATION
 - TR01 ▼ PRODUCT LINE SOIL SAMPLE LOCATION
 - TR02 ▼ VENT LINE SOIL SAMPLE LOCATION
 - TK02 ▼ UST SOIL SAMPLE LOCATION
 - SW01 ▼ UST EXCAVATION SIDEWALL SOIL SAMPLE LOCATION
 - WTS01 ▼ WASTE OIL UST SOIL SAMPLE LOCATION

PROJECT NO.	DRAWN BY
GOB5M	K. MARTIN
FILE NO. AO-725-04	PREPARED BY S. PEACHER
DATE 25 oct 05	REV. 0 REVIEWED BY

TABLE 1
HISTORICAL SOIL ANALYTICAL RESULTS
ARCO Facility No. 0206
302 W. First Street
Santa Ana, CA

Sample I.D.	Date Sampled	Sample Depth	TPHg (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	MTBE (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	TBA (mg/kg)	Ethanol (mg/kg)
B-1	9/10/1992	12	3100	10	210	80	500	NA	NA	NA	NA	NA	NA
B-1	9/10/1992	27	6100	100	500	140	690	NA	NA	NA	NA	NA	NA
B-1	9/10/1992	37	4.9	1.2	0.046	0.12	0.19	NA	NA	NA	NA	NA	NA
B-1	9/10/1992	42	ND<0.50	0.029	0.038	ND<0.0050	0.020	NA	NA	NA	NA	NA	NA
B-2	2/18/1993	25	1.1	0.22	0.19	0.030	0.14	NA	NA	NA	NA	NA	NA
B-2	2/18/1993	40	ND<0.50	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	NA	NA	NA	NA	NA	NA
B-3	2/18/1993	10	540	0.051	0.21	2.5	13	NA	NA	NA	NA	NA	NA
B-3	2/18/1993	20	5.8	0.39	0.75	0.16	0.84	NA	NA	NA	NA	NA	NA
B-3	2/18/1993	30	2.6	0.91	0.087	0.11	0.19	NA	NA	NA	NA	NA	NA
B-3	2/18/1993	40	ND<0.50	0.011	0.0081	ND<0.0050	0.009	NA	NA	NA	NA	NA	NA
B-4	2/18/1993	10	230	0.16	0.90	2.2	10.0	NA	NA	NA	NA	NA	NA
B-4	2/18/1993	30	17	1.0	0.48	0.14	0.71	NA	NA	NA	NA	NA	NA
B-4	2/18/1993	40	ND<0.50	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	NA	NA	NA	NA	NA	NA
B-5 (VW-5)	2/19/1993	10	ND<0.50	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	NA	NA	NA	NA	NA	NA
B-5 (VW-5)	2/19/1993	20	17	0.21	1.8	0.41	2.70	NA	NA	NA	NA	NA	NA
B-5 (VW-5)	2/19/1993	30	7.6	1.0	2.9	0.22	1.5	NA	NA	NA	NA	NA	NA
B-5 (VW-5)	2/19/1993	40	ND<0.50	ND<0.0050	0.018	ND<0.0050	0.007	NA	NA	NA	NA	NA	NA
B-5 (VW-5)	2/19/1993	50	ND<0.50	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	NA	NA	NA	NA	NA	NA
B-6 (VW-6)	2/19/1993	10	14	ND<0.0050	ND<0.0050	0.015	0.31	NA	NA	NA	NA	NA	NA
B-6 (VW-6)	2/19/1993	15	6500	ND<14	120	160	1100	NA	NA	NA	NA	NA	NA
B-6 (VW-6)	2/19/1993	30	6300	84	610	150	860	NA	NA	NA	NA	NA	NA
B-6 (VW-6)	2/19/1993	40	ND<0.50	ND<0.0050	0.0059	ND<0.0050	ND<0.0050	NA	NA	NA	NA	NA	NA
B-6 (VW-6)	2/19/1993	50	ND<0.50	ND<0.0050	ND<0.0050	ND<0.0050	0.005	NA	NA	NA	NA	NA	NA
B-7	2/19/1993	10	ND<0.50	ND<0.0050	ND<0.0050	ND<0.0050	0.024	NA	NA	NA	NA	NA	NA
B-7	2/19/1993	30	8.6	0.41	2.0	0.19	1.3	NA	NA	NA	NA	NA	NA
B-7	2/19/1993	40	ND<0.50	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	NA	NA	NA	NA	NA	NA
B-7	2/19/1993	50	ND<0.50	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	NA	NA	NA	NA	NA	NA
B-8	2/23/1993	10	2.4	0.052	0.0073	0.011	0.33	NA	NA	NA	NA	NA	NA

TABLE 1
HISTORICAL SOIL ANALYTICAL RESULTS
ARCO Facility No. 0206
302 W. First Street
Santa Ana, CA

Sample I.D.	Date Sampled	Sample Depth	TPHg (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	MTBE (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	TBA (mg/kg)	Ethanol (mg/kg)
B-8	2/23/1993	20	53	3.7	2.4	0.70	9.3	NA	NA	NA	NA	NA	NA
B-8	2/23/1993	30	5.2	0.95	0.49	0.19	0.38	NA	NA	NA	NA	NA	NA
B-8	2/23/1993	35	21	2.0	4.6	0.56	3.4	NA	NA	NA	NA	NA	NA
B-8	2/23/1993	40	3.4	0.29	0.34	0.14	0.64	NA	NA	NA	NA	NA	NA
B-8	2/23/1993	50	0.98	ND<0.0050	0.012	0.0053	0.029	NA	NA	NA	NA	NA	NA
B-9	2/23/1993	10	ND<0.52	ND<0.0052	ND<0.0052	ND<0.0052	0.023	NA	NA	NA	NA	NA	NA
B-9	2/23/1993	30	1.8	0.44	0.088	0.071	0.22	NA	NA	NA	NA	NA	NA
B-9	2/23/1993	40	ND<0.51	0.0068	ND<0.0051	ND<0.0051	0.0096	NA	NA	NA	NA	NA	NA
E01	9/15/1993	NA	4.6	ND<0.012	ND<0.012	0.021	0.18	NA	NA	NA	NA	NA	NA
N01	9/15/1993	NA	38	ND<0.24	ND<0.24	ND<0.24	1.3	NA	NA	NA	NA	NA	NA
NW01	9/15/1993	NA	2.4	ND<0.012	ND<0.012	0.013	ND<0.012	NA	NA	NA	NA	NA	NA
S01	9/15/1993	NA	ND<0.50	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	NA	NA	NA	NA	NA	NA
SW01	9/15/1993	NA	ND<0.50	ND<0.0050	ND<0.0050	ND<0.0050	0.037	NA	NA	NA	NA	NA	NA
TK01	9/15/1993	NA	510	2.4	12	7.4	46	NA	NA	NA	NA	NA	NA
TK02	9/15/1993	NA	38	0.26	1.3	0.67	4.3	NA	NA	NA	NA	NA	NA
PD01	9/17/1993	NA	0.97	ND<0.0050	ND<0.0050	ND<0.0050	0.028	NA	NA	NA	NA	NA	NA
PD02A	9/17/1993	NA	1.5	ND<0.012	ND<0.012	ND<0.012	0.11	NA	NA	NA	NA	NA	NA
PD02B	9/17/1993	NA	1.9	ND<0.0050	ND<0.0050	0.0074	0.036	NA	NA	NA	NA	NA	NA
WTS01	9/17/1993	NA	1300*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TR01	9/24/1993	NA	76	0.46	1.8	1.0	5.8	NA	NA	NA	NA	NA	NA
TR02	9/24/1993	NA	1.3	ND<0.0050	0.019	0.0032	0.098	NA	NA	NA	NA	NA	NA
TR03	9/24/1993	NA	0.60	ND<0.0050	ND<0.0050	ND<0.0050	0.018	NA	NA	NA	NA	NA	NA
TR04	9/24/1993	NA	ND<0.50	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	NA	NA	NA	NA	NA	NA
TR05	9/24/1993	NA	ND<0.50	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	NA	NA	NA	NA	NA	NA
TR06	9/24/1993	NA	ND<0.50	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	NA	NA	NA	NA	NA	NA
TR07	9/24/1993	NA	ND<0.50	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	NA	NA	NA	NA	NA	NA
TR08	9/24/1993	NA	ND<0.50	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	NA	NA	NA	NA	NA	NA
TR09	9/24/1993	NA	ND<0.50	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	NA	NA	NA	NA	NA	NA
TR10	9/24/1993	NA	ND<0.50	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	NA	NA	NA	NA	NA	NA

TABLE 1
HISTORICAL SOIL ANALYTICAL RESULTS
ARCO Facility No. 0206
302 W. First Street
Santa Ana, CA

Sample I.D.	Date Sampled	Sample Depth	TPHg (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	MTBE (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	TBA (mg/kg)	Ethanol (mg/kg)
CSB1-55	6/10/1999	55	ND<0.1	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.010	ND<0.010	NA	NA	NA	NA
CSB1-60	6/10/1999	60	ND<0.1	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.010	ND<0.010	NA	NA	NA	NA
CSB3-5	6/10/1999	5	ND<0.1	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.010	ND<0.010	NA	NA	NA	NA
CSB3-10	6/10/1999	10	2300	ND<2.5	20	30	310	ND<5	NA	NA	NA	NA	NA
CSB3-15	6/10/1999	15	1700	ND<2.5	39	37	230	ND<5	NA	NA	NA	NA	NA
CSB3-20	6/10/1999	20	8000	26	520	150	870	ND<50	NA	NA	NA	NA	NA
CSB3-25	6/10/1999	25	9200	50	600	160	870	ND<50	NA	NA	NA	NA	NA
CSB3-30	6/10/1999	30	4500	33	300	74	420	22	ND<2	ND<2	ND<2	ND<40	NA
CSB3-35	6/10/1999	35	72	3.1	8.7	1.2	7.4	ND<0.5	NA	NA	NA	NA	NA
CSB3-40	6/10/1999	40	3100	20	200	54	310	ND<10	NA	NA	NA	NA	NA
CSB3-45	6/10/1999	45	6	0.010	0.051	0.006	0.058	ND<0.010	NA	NA	NA	NA	NA
CSB3-50	6/10/1999	50	6	0.008	0.053	0.010	0.059	ND<0.010	NA	NA	NA	NA	NA
CSB3-55	6/10/1999	55	0.4	ND<0.005	0.034	0.008	0.052	ND<0.010	NA	NA	NA	NA	NA
CSB3-60	6/10/1999	60	0.2	ND<0.005	0.014	ND<0.005	0.016	ND<0.010	NA	NA	NA	NA	NA
CSB4-5	6/10/1999	5	ND<0.1	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.010	NA	NA	NA	NA	NA
CSB4-10	6/10/1999	10	11	ND<0.005	ND<0.005	0.062	0.44	0.021	NA	NA	NA	NA	NA
CSB4-15	6/10/1999	15	56	ND<0.25	ND<0.25	ND<0.25	0.42	ND<0.5	NA	NA	NA	NA	NA
CSB4-20	6/10/1999	20	ND<0.1	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.010	NA	NA	NA	NA	NA
CSB4-25	6/10/1999	25	0.2	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.010	NA	NA	NA	NA	NA
CSB4-30	6/10/1999	30	1.2	0.30	ND<0.005	0.087	ND<0.005	0.17	ND<0.005	ND<0.005	ND<0.005	ND<0.100	NA
CSB4-35	6/10/1999	35	0.2	ND<0.005	ND<0.005	0.011	ND<0.005	0.025	NA	NA	NA	NA	NA
CSB4-40	6/10/1999	40	ND<0.1	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.010	NA	NA	NA	NA	NA
CSB4-45	6/10/1999	45	ND<0.1	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.010	NA	NA	NA	NA	NA
CSB4-50	6/10/1999	50	ND<0.1	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.010	NA	NA	NA	NA	NA
D1-2	10/28/1999	2	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.015	ND<0.0050	NA	NA	NA	NA	NA
D2-2	10/28/1999	2	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.015	ND<0.0050	NA	NA	NA	NA	NA
D3-2	10/28/1999	2	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.015	ND<0.0050	NA	NA	NA	NA	NA
D4-2	10/28/1999	2	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.015	ND<0.0050	NA	NA	NA	NA	NA
P1-2	10/28/1999	2	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.015	ND<0.0050	NA	NA	NA	NA	NA

TABLE 1
HISTORICAL SOIL ANALYTICAL RESULTS
ARCO Facility No. 0206
302 W. First Street
Santa Ana, CA

Sample I.D.	Date Sampled	Sample Depth	TPHg (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	MTBE (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	TBA (mg/kg)	Ethanol (mg/kg)
P2-2	10/28/1999	2	ND<1.0	ND<0.0050	ND<0.0050	ND<0.015	ND<0.0050	NA	NA	NA	NA	NA	ND<0.26
P3-2	10/28/1999	2	ND<1.0	ND<0.0050	ND<0.0050	ND<0.015	ND<0.0050	NA	NA	NA	NA	NA	ND<67
P4-2	10/28/1999	2	ND<1.0	ND<0.0050	ND<0.0050	ND<0.015	ND<0.0050	NA	NA	NA	NA	NA	ND<130
CSB-5-10	10/13/2005	10	ND<0.36	ND<0.0018	ND<0.0018	ND<0.0044	ND<0.0035	ND<0.0044	ND<0.0044	ND<0.0044	ND<0.0044	ND<0.0044	ND<0.27
CSB-5-15	10/13/2005	15	470	ND<0.45	ND<0.45	ND<0.45	ND<0.45	6.2	ND<1.1	ND<1.1	ND<1.1	ND<22	ND<67
CSB-5-20	10/13/2005	20	710	ND<0.89	25	21	360	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<45	ND<130
CSB-5-25	10/13/2005	25	15000	56	1500	380	2300	ND<43	ND<43	ND<43	ND<43	ND<850	ND<2600
CSB-5-30	10/13/2005	30	4000	24	210	55	320	ND<5.2	ND<5.2	ND<5.2	ND<5.2	ND<100	ND<310
CSB-5-35	10/13/2005	35	ND<16	1.4	3.2	0.27	1.7	ND<0.23	ND<0.23	ND<0.23	ND<0.23	ND<4.5	ND<14
CSB-5-40	10/13/2005	40	ND<0.40	ND<0.035	0.018	ND<0.035	0.015	ND<0.0088	ND<0.0088	ND<0.0088	ND<0.0088	ND<0.088	ND<0.53
CSB-5-45	10/13/2005	45	ND<0.40	ND<0.13	0.18	ND<0.13	ND<0.27	ND<0.34	ND<0.34	ND<0.34	ND<0.34	ND<6.7	ND<20
CSB-5-50	10/13/2005	50	ND<0.36	ND<0.0018	0.0030	ND<0.0018	0.0046	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.045	ND<0.27
CSB-6-10	10/13/2005	10	ND<0.40	ND<0.0016	ND<0.0016	ND<0.0016	ND<0.0033	ND<0.0041	ND<0.0041	ND<0.0041	ND<0.0041	ND<0.041	ND<0.25
CSB-6-15	10/13/2005	15	ND<0.40	ND<0.0020	ND<0.0020	ND<0.0040	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.050	ND<0.30
CSB-6-20	10/13/2005	20	ND<0.40	ND<0.0018	ND<0.0018	ND<0.0018	ND<0.0036	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.045	ND<0.27
CSB-6-25	10/13/2005	25	ND<0.40	ND<0.0017	ND<0.0017	ND<0.0017	ND<0.0034	ND<0.0043	ND<0.0043	ND<0.0043	ND<0.0043	ND<0.043	ND<0.26
CSB-6-30	10/13/2005	30	ND<0.33	ND<0.0017	ND<0.0017	ND<0.0017	ND<0.0033	0.041	ND<0.0041	ND<0.0041	ND<0.0041	ND<0.041	ND<0.25
CSB-6-35	10/13/2005	35	ND<0.32	ND<0.0018	ND<0.0018	ND<0.0018	ND<0.0036	0.12	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.045	ND<0.27
CSB-6-40	10/13/2005	40	ND<0.40	ND<0.0020	ND<0.0020	ND<0.0040	ND<0.0047	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.050	ND<0.30
CSB-6-45	10/13/2005	45	ND<0.33	ND<0.0025	ND<0.0025	ND<0.0051	ND<0.0063	ND<0.0063	ND<0.0063	ND<0.0063	ND<0.0063	ND<0.063	ND<0.38
CSB-6-50	10/13/2005	50	ND<0.35	ND<0.0025	ND<0.0025	ND<0.0049	ND<0.0061	ND<0.0061	ND<0.0061	ND<0.0061	ND<0.0061	ND<0.061	ND<0.37
CSB-7-10	10/13/2005	10	ND<0.40	ND<0.0018	ND<0.0018	ND<0.0018	ND<0.0036	ND<0.0044	ND<0.0044	ND<0.0044	ND<0.0044	ND<0.044	ND<0.27
CSB-7-15	10/13/2005	15	ND<0.34	ND<0.0020	ND<0.0020	ND<0.0040	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.050	ND<0.30
CSB-7-20	10/13/2005	20	ND<0.32	ND<0.0018	ND<0.0018	ND<0.0018	ND<0.0036	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.045	ND<0.27
CSB-7-25	10/13/2005	25	1600	0.97	32	46	270	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<45	ND<130
CSB-7-30	10/13/2005	30	1.0	0.10	0.15	0.064	0.18	0.019	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.045	ND<0.27
CSB-7-35	10/13/2005	35	ND<0.40	ND<0.0020	ND<0.0020	ND<0.0040	0.061	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.050	ND<0.30
CSB-7-40	10/13/2005	40	ND<0.40	ND<0.0020	ND<0.0020	ND<0.0040	0.045	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	0.14	ND<0.30
CSB-7-45	10/13/2005	45	ND<0.45	ND<0.0025	ND<0.0025	ND<0.0050	ND<0.0062	ND<0.0062	ND<0.0062	ND<0.0062	ND<0.0062	ND<0.062	ND<0.37

TABLE 1
HISTORICAL SOIL ANALYTICAL RESULTS

ARCO Facility No. 0206
302 W. First Street
Santa Ana, CA

Sample I.D.	Date Sampled	Sample Depth	TPHg (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	MTBE (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	TBA (mg/kg)	Ethanol (mg/kg)
CSB-7-50	10/13/2005	50	ND<0.40	ND<0.0017	ND<0.0017	ND<0.0017	ND<0.0017	ND<0.0043	ND<0.0043	ND<0.0043	ND<0.0043	ND<0.043	ND<0.26

Notes: EPA = Environmental Protection Agency

mg/kg = Milligrams per kilogram

TPHg = Total petroleum hydrocarbons as gasoline

MTBE = Methyl tertiary butyl ether

DIPE = Di-isopropyl ether

ETBE = Ethyl tertiary butyl ether

TAME = Tertiary amyl methyl ether

TBA = Tertiary butanol

NA = Not analyzed

ND<Number = Analyte not detected at or above the stated laboratory reporting limit

TPHg analysis by EPA 8015 Modified. TRPH analysis by EPA 418.1.

Benzene, Toluene, Ethylbenzene, Xylenes, MTBE, DIPE, ETBE, TAME, TBA, and Ethanol analyses by EPA 8260B

* = Total recoverable petroleum hydrocarbons analysis by EPA 418.1.

TABLE 2
WELL CONSTRUCTION DETAILS
ARCO Facility No. 206
302 West First Street
Santa Ana, CA

Well I.D.	Date Construction Completed	Well Type	Total Depth (feet bgs)	Screen Interval (feet bgs)	Casing Diameter (inches)
B-5 / VW-5	02/19/93	Vadose	33	13-33	4
B-6 / VW-6	02/19/93	Vadose	33	13-33	4
VW-12	05/03/94	Vadose	35	20-35	4
VW-13	05/03/94	Vadose	35	20-35	4
VW-14	05/02/94	Vadose	36	21-36	4
VW-15	05/02/94	Vadose	30	10-30	4
VW-16	05/03/94	Vadose	30	10-30	4

NOTES:

bgs = Below ground surface

TABLE 3

SVE SYSTEM PERFORMANCE DATA
 ARCO Facility No. 206
 302 West First Street
 Santa Ana, CA

DATE	OPERATING HOURS	CUMULATIVE OPERATING HOURS	TOTAL VACUUM (IN H ₂ O)	FLOW RATE (SCFM)	INFLUENT/EFFLUENT		EFFLUENT CONC.		STACK TEMP (DEG F)	VFH MASS DESTROYED (LBS)	CUMULATIVE VFH MASS DESTROYED (LBS)	COMMENTS	
					VFH (FIELD-PPMV)	VFH CONC. (FIELD-PPMV)	BENZENE (LAB-PPMV)	MTBE (LAB-PPMV)					
11/06/00	4	12,900	50	250	450	7.2	1300	5.1	5.8	7.2	<1.6	1524	21
11/07/00	46	12,946	42	231	271	3.4	NA	NA	NA	NA	NA	1568	46
11/08/00	7	12,953	39	233	250	5.6	NA	NA	NA	NA	NA	1587	6
11/09/00	24	12,977	43	232	850	8.7	NA	NA	NA	NA	NA	1574	73
11/10/00	20	12,997	40	233	540	4.7	NA	NA	NA	NA	NA	1590	148
11/11/00	93	13,070	38	236	516	5.1	NA	NA	NA	NA	NA	1575	40
11/12/00	121	13,118	38	229	560	3.9	NA	NA	NA	NA	NA	1582	188
11/13/00	165	13,283	35	226	243	2.6	NA	NA	NA	NA	NA	1560	327
11/14/00	123	13,406	38	222	520	3.1	NA	NA	NA	NA	NA	1573	433
11/15/00	242	13,648	39	218	696	3.4	NA	NA	NA	NA	NA	1600	577
12/07/00	93	13,741	39	218	549	1.7	530	1.8	2.9	7.9	<1.6	1523	802
12/11/00	263	14,004	41	215	650	1.7	NA	NA	NA	NA	NA	1571	1,383
12/22/00	119	14,123	44	211	345	1.6	NA	NA	NA	NA	NA	1541	327
01/02/01	147	14,270	50	198	233	0.7	NA	NA	NA	NA	NA	1559	2,272
01/10/01	52	14,322	80	211	350	0	620	2.7	3.3	<2.4	<1.6	1555	107
01/15/01	119	14,441	80	205	649	0	NA	NA	NA	NA	NA	1605	2,487
01/22/01	60	14,601	75	211	490	0.7	NA	NA	NA	NA	NA	1599	1,553
01/27/01	71	14,772	60	224	636	0	NA	NA	NA	NA	NA	1582	2,135
02/05/01	68	14,940	60	211	479	0	NA	NA	NA	NA	NA	1553	3,386
02/12/01	68	15,108	40	240	645	0	270	<1.6	2.3	<2.4	<1.6	1524	3,655
03/20/01	81	15,290	85	195	450	2.1	290	<1.6	2.3	<2.4	<1.6	1605	3,827
03/27/01	52	15,442	64	207	562	0.2	NA	NA	NA	NA	NA	1599	3,989
04/02/01	143	15,585	62	197	473	0	NA	NA	NA	NA	NA	1671	2,999
04/09/01	152	15,737	60	198	499	0	320	<6.4	5.6	12	<1.6	1609	4,200
04/16/01	65	15,901	64	195	467	0	NA	NA	NA	NA	NA	1521	4,352
04/23/01	63	16,064	61	196	594	0	NA	NA	NA	NA	NA	1515	4,590
05/01/01	88	16,252	62	191	2251	0	NA	NA	NA	NA	NA	1521	4,890
05/07/01	135	16,387	60	190	1324	0	160	<3.2	5.3	12	<1.6	1519	6,167
05/14/01	161	16,548	60	189	447	0	NA	NA	NA	NA	NA	1496	6,232
05/21/01	161	16,708	60	188	522	0	NA	NA	NA	NA	NA	1500	6,447
06/05/01	2	16,710	60	190	882	0	250	<1.6	2.4	<2.4	<1.6	1522	6,636
06/12/01	148	16,838	64	194	2137	0	NA	NA	NA	NA	NA	1521	7,672
06/19/01	168	17,026	64	192	630	0	NA	NA	NA	NA	NA	1523	7,992
07/03/01	196	17,675	55	226	207	0	NA	NA	NA	NA	NA	1408	8,642
08/16/01	170	17,196	60	191	579	0	NA	NA	NA	NA	NA	1540	8,290
07/03/01	144	17,340	62	191	364	0	NA	NA	NA	NA	NA	1395	8,651
07/10/01	0	17,340	60	190	894	0	19	<1.6	2.4	<2.4	<1.6	1372	8,449
07/17/01	139	17,479	60	175	126	0	NA	NA	NA	NA	NA	1368	9,006
07/30/01	12	17,687	44	225	382	2.9	200	<1.6	2.4	<2.4	<1.6	1455	8,449
08/20/01	239	17,946	40	225	385	0	NA	NA	NA	NA	NA	1455	9,006
10/02/01	0	Hour meter broken	60	231	438	0	NA	NA	NA	NA	NA	1368	8,449
10/09/01	168	Hour meter broken	70	202	525	1.4	390	<3.2	2.8	<2.4	<1.6	1586	9,238
10/16/01	216	Hour meter broken	79	200	477	1.2	NA	NA	NA	NA	NA	1489	9,614
10/22/01	96	Hour meter broken	75	205	525	0	NA	NA	NA	NA	NA	1469	9,778
10/30/01	192	17,915	60	205	611	0	NA	NA	NA	NA	NA	1446	10,159

Wells VW-5, VW-6, VW-12, VW-13, VW-14, VW-15, and
VW-15 connected to system

System shut down on 8/27 (temperature controller broken)

TABLE 3
SVE SYSTEM PERFORMANCE DATA
 ARCO Facility No. 206
 302 West First Street
 Santa Ana, CA

DATE	OPERATING HOURS	CUMULATIVE OPERATING HOURS	TOTAL VACUUM (IN H ₂ O)	FLOW RATE (SCFM)	INFLUENT/EFFLUENT VFH CONC. (FIELD-PPMV)		EFFLUENT CONC. (LAB-PPMV)		STACK TEMP (DEG F)	MASS DESTROYED (LBS)	VFH MASS DESTROYED	CUMULATIVE VFH MASS DESTROYED	COMMENTS
					VFH	BENZENE	MTBE	VFH					
11/05/01	140	18,055	80	211	240	<1.6	13	<1.6	1414	112	10,271		
11/15/01	238	18,293	68	226	162	4.2	NA	NA	NA	138	10,489		
11/27/01	291	18,584	100	205	674	11	NA	NA	NA	1399	11,045		
02/21/02	90	18,674	40	137	206	4.2	530	4.8	4.1	637	11,085		
02/25/02	32	18,705	30	140	199	3.1	NA	NA	NA	1679	40		Replaced blower, restarted system
03/06/02	215	18,920	31	138	201	4.6	500	<1.6	1.8	1679	14	11,099	
03/15/02	214	19,133	26	143	226	3.4	NA	NA	NA	NA	94	11,193	
03/22/02	163	19,296	24	144	1028	4.6	NA	NA	NA	NA	109	11,303	
03/25/02	79	19,375	24	142	549	3.1	NA	NA	NA	NA	1597	382	11,385
04/04/02	233	19,608	30	142	2573	7.9	NA	NA	NA	NA	1759	97	11,782
04/12/02	197	19,805	30	143	536	0	NA	NA	NA	NA	NA	1520	13,128
04/17/02	117	19,922	40	136	2271	3.8	NA	NA	NA	NA	NA	1560	13,367
04/22/02	121	20,043	42	135	1956	5.6	NA	NA	NA	NA	NA	1568	13,540
04/30/02	0	20,044	54	132	2571	12.5	NA	NA	NA	NA	NA	1416	2
05/10/02	246	20,289	5	143	84	0	NA	NA	NA	NA	NA	1528	47
06/28/02	1	20,291	10	144	340	0	120	1.3	68	10	<1.2	1333	1
07/06/02	188	20,479	40	142	800	8	NA	NA	NA	NA	NA	1524	339
07/11/02	117	20,596	NA	142	256	0	NA	NA	NA	NA	NA	1532	68
07/15/02	100	20,696	NA	140	214	0	NA	NA	NA	NA	NA	1510	47
07/24/02	213	20,909	NA	141	255	0	20	<1.2	9.5	3.9	<1.2	1520	10
08/02/02	215	21,124	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14,496
09/20/02	7	21,132	20	141	237	0	NA	NA	NA	NA	NA	1451	4
09/24/02	92	21,224	90	121	98.6	0	57	<1.6	<1.4	4.3	<1.6	14,835	
10/04/02	236	21,460	110	118	101.4	0	NA	NA	NA	NA	NA	1450	10
10/10/02	149	21,610	114	119	566	13.4	NA	NA	NA	NA	NA	1452	45
10/15/02	116	21,725	110	117	574	12.7	NA	NA	NA	NA	NA	1474	55
10/22/02	171	21,896	106	117	528	11.8	NA	NA	NA	NA	NA	1448	15,177
10/31/02	217	22,113	98	241	6.8	41	<1.6	<1.4	<2.4	<1.6	1447	14	
11/07/02	163	22,276	120	113	562	12	NA	NA	NA	NA	NA	1423	164
11/14/02	171	22,447	32	134	475	14	NA	NA	NA	NA	NA	1415	172
01/21/03	2	22,449	NA	NA	NA	NA	NA	NA	NA	NA	NA	1448	15,300
02/13/03	0.4	22,449	140	NA	NA	NA	NA	NA	NA	NA	NA	1466	15,468
02/20/03	0.4	22,450	106.7	80.5	1541	0.1	180	2.2	<1.4	<2.4	<1.6	1447	15,482
02/27/03	167.3	22,617	113	NA	1584	15.8	NA	NA	NA	NA	NA	1423	15,646
03/06/03	63.5	22,781	118	57.7	1429	16.8	NA	NA	NA	NA	NA	1414	38
03/12/03	150.6	22,931	120	62.5	246	0.3	33	<1.6	<1.4	<2.4	<1.6	1429	27
03/19/03	166.8	23,098	120	71	159	7.7	NA	NA	NA	NA	NA	1543	5
03/27/03	184.8	23,283	98	143	1535	0	NA	NA	NA	NA	NA	1456	6
04/02/03	150.9	23,434	119	150	1211	4.9	NA	NA	NA	NA	NA	1418	14
04/10/03	0.1	23,434	NA	NA	NA	NA	NA	NA	NA	NA	NA	1480	12
04/15/03	5.7	23,440	34	143	2314	0	370	1.6	<1.4	10	<1.6	1340	5
07/22/03	168.9	23,608	30	144	1730	0	NA	NA	NA	NA	NA	1325	142
07/29/03	158.0	23,766	120	143	117	0	130	<1.6	<1.4	3.7	<1.6	1303	46
08/05/03	170.7	23,937	120	144	115	0	NA	NA	NA	NA	NA	1330	51
08/12/03	169.5	24,107	120	145	111	0.1	NA	NA	NA	NA	NA	1341	51

TABLE 3
SVE SYSTEM PERFORMANCE DATA
 ARCO Facility No. 206
 302 West First Street
 Santa Ana, CA

DATE	OPERATING HOURS	CUMULATIVE OPERATING HOURS	INFLUENT/EFFLUENT FLOW RATE (SCFM)		INFILTRATE/EFFLUENT VFH CONC. (FIELD-PPMV)		EFFLUENT CONC. (LAB-PPMV)			VFH CONC. (LAB-PPMV)			CUMULATIVE VFH MASS DESTROYED (LBS)			COMMENTS	
			TOTAL VACUUM (IN H2O)	VFH (SCFM)	VFH	BENZENE	MTBE	VFH	BENZENE	MTBE	STACK TEMP (DEG F)	MASS DESTROYED (LBS)	VFH MASS DESTROYED (LBS)	VFH MASS DESTROYED (LBS)	RESTARTED	SHUT DOWN	
08/19/03	167.3	24,274	99	145	1,872	18.9	73	<1.6	<1.4	<2.4	1331	28	16,243	Laboratory data collected on 8/20/2003			
08/26/03	169.3	24,443	98	144	1,749	16.8	NA	NA	NA	NA	1321	28	16,271				
09/04/03	215.3	24,659	110	145	439	19	NA	NA	NA	NA	1335	36	16,307				
09/10/03	145.0	24,804	120	145	364	14.6	NA	NA	NA	NA	1372	24	16,331				
09/17/03	168.6	24,972	118	146	475	26.3	120	<1.6	<1.4	<2.4	<0.059	1339	47	16,378	Fixed broken sample port at VW-15		
09/24/03	166.3	25,138	20	181	1,266	13.2	NA	NA	NA	NA	1337	57	16,435	Shut down system at departure for cycling			
10/15/03	0.6	25,139	140	85.6	312.6	3.8	NA	NA	NA	NA	1412	0.1	16,436	Restarted system after cycling			
10/22/03	170.7	25,310	150	101	327.4	0.2	250	<6.4	<2.4	0.21	1422	68	16,504				
10/28/03	148.3	25,458	147	132	369	2.1	NA	NA	NA	NA	1419	77	16,581				
11/06/03	215.3	25,673	120	143	270	3	NA	NA	NA	NA	1420	122	16,703				
11/13/03	169.0	25,842	125	146	242.6	1.8	NA	NA	NA	NA	1422	98	16,801				
11/20/03	61.4	26,004	134	145	337.1	2.4	NA	NA	NA	NA	1489	93	16,893				
11/26/03	143.8	26,148	140	145	314.1	0.5	NA	NA	NA	NA	1435	83	16,976				
12/04/03	193.2	26,341	130	152	1,79.6	0	NA	NA	NA	NA	1451	116	17,092				
12/09/03	124.8	26,466	135	143	167	0	NA	NA	NA	NA	1468	71	17,163				
12/16/03	166.4	26,632	20	183	154	0	9.2	<1.6	<1.4	<2.4	<0.059	1451	4	17,167	Shut down system at departure for cycling		
01/20/04	0.7	26,633	90	162	180	0	7.6	<1.6	<1.4	<2.4	<0.059	1303	0.01	17,167	Restarted system after cycling; collected samples on 1/22/04		
01/27/04	165.7	26,798	88	160	165	0	NA	NA	NA	NA	1466	3	17,170				
02/03/04	169.2	26,968	80	149	167	0	120	<1.6	<1.4	3.9	<0.059	1339	48	17,218	Adjusted dilution air; collected samples on 2/6/2004		
02/10/04	170.9	27.138	80	154	161	0	NA	NA	NA	NA	1445	50	17,268				
02/17/04	167.7	27.306	74	179	167	0	NA	NA	NA	NA	1313	57	17,325	Adjusted alarm for dilution			
02/24/04	167.7	27.474	76	165	171	0	NA	NA	NA	NA	1315	53	17,378				
03/05/04	237.2	27.711	62	159	90	0	80	<1.6	<1.4	2.5	<0.059	1405	48	17,426			
04/07/04	3.0	27.714	65	152	160	0	NA	NA	NA	NA	1379	1	17,426				
04/15/04	192	27.906	70	151	80	0	100	<1.6	<1.4	2.6	<0.059	1409	46	17,472			
04/21/04	142	28,048	70	149	80	0	NA	NA	NA	NA	1402	33	17,506				
04/28/04	124	28,172	72	149	85	8	NA	NA	NA	NA	1402	29	17,535				
05/05/04	218	28,390	72	127	80	4	91	<1.6	<1.4	<2.4	<0.059	1419	40	17,575			
05/04/04	0	28,390	68	127	190	0	NA	NA	NA	NA	1376	0	17,575				
07/10/04	279	29,250	80	127	150	0	74	<1.6	<1.4	<2.4	<0.059	1423	18	17,593			
06/09/04	124	28,514	72	127	150	6	NA	NA	NA	NA	1398	25	17,618				
06/16/04	164	28,678	78	80	0	NA	NA	NA	NA	NA	1407	19	17,637				
06/21/04	125	28,803	80	128	80	0	NA	NA	NA	NA	1410	25	17,661				
06/28/04	168	28,971	82	126	90	0	NA	NA	NA	NA	1398	35	17,792				
07/10/04	168	29,945	84	125	80	7	43	<1.6	<1.4	NA	NA	1393	14	17,806			
08/10/04	4	29,949	16	144	26	2	24	<1.6	<1.4	3.3	<0.059	1408	0.2	17,807			
08/19/04	210	30,111	99	122	120	0	92	<1.6	<1.4	3.3	<0.010	1400	39	17,735			
08/24/04	123	29,585	82	125	110	5	NA	NA	NA	NA	1399	22	17,757				
09/01/04	192	29,777	84	125	80	5	NA	NA	NA	NA	1398	35	17,792				
09/08/04	168	29,945	84	125	80	7	43	<1.6	<1.4	NA	NA	1393	14	17,806			
10/04/04	4	29,949	16	144	26	2	24	<1.6	<1.4	3.3	<0.059	1408	0.2	17,807			
10/11/04	162	30,111	99	122	120	0	NA	NA	NA	NA	1397	7.5	17814				
10/18/04	174	30,285	98	121	53	2	NA	NA	NA	NA	1392	8.0	17822				
10/25/04	161	30,446	100	123	46	2	NA	NA	NA	NA	1412	7.5	17830				
11/01/04	168	30,614	20	145	2	0	9.5	<1.6	<1.4	5.6	<0.059	1412	3.7	17833	Shut down at departure for 1 month of cycling		
12/01/04	3	30,617	16	145	71	0	<2.4	<1.6	<1.4	<2.4	<0.059	1410	0.01	17833	Restart system after cycling		

TABLE 3
SVE SYSTEM PERFORMANCE DATA
ARCO Facility No. 206
302 West First Street
Santa Ana, CA

DATE	OPERATING HOURS	CUMULATIVE OPERATING HOURS	INFLUENT/EFFLUENT VFH CONC.			EFFLUENT CONC.			VFH MASS DESTROYED (LBS)	CUMULATIVE VFH MASS DESTROYED (LBS)	COMMENTS
			TOTAL VACUUM (IN H ₂ O)	FLOW RATE (SCFM)	(FIELD-PPMV)	VFH	BENZENE	MTBE			
12/07/04	144	30,761	95	122	0	NA	NA	NA	NA	1418	0.7
12/14/04	169	30,930	92	125	47	0	NA	NA	NA	1400	0.8
12/20/04	143	31,073	92	125	52	0	NA	NA	NA	1399	0.7
12/28/04	191	31,264	88	126	44	0	NA	NA	NA	1403	0.9
01/03/05	145	31,409	20	146	6	0	4.7	<1.6	<1.4	1441	1.6
02/01/05	3	31,412	40	138	92	0	45	<1.6	<1.4	<0.059	17838
02/08/05	168	31,580	42	137	79	0	NA	NA	NA	NA	17838
02/14/05	142	31,722	46	136	25	0	NA	NA	NA	NA	17835
02/21/05	170	31,892	48	147	60	2	NA	NA	NA	NA	17836
02/28/05	169	32,061	22	139	7	0	5.2	<1.6	<1.4	<0.059	17836
											Shut down at departure for 1 month of cycling
											Restarted system after cycling

Notes:
SVE = Soil vapor extraction
VFH = Volatile fuel hydrocarbons
PPMV = Parts per million by volume
Conc. = Concentration
SCFM = Standard cubic feet per minute

Deg F = Degrees Fahrenheit
NA = Not analyzed/available
LBS = Pounds
Temp. = Temperature
<1.6 = Not detected at or above stated laboratory reporting limit

Field data used in calculations except when laboratory results available until first quarter 2003. During first quarter 2003 and after, lab data only was used to calculate pounds removed.
When flow rate is not available previous recorded flow rate is used to calculate pounds removed.
AQMD permit requirement: Benzene effluent <0.691 ppmv; bold values are >0.691.

TABLE 4

WELL SOURCE DATA
ARCO Facility No. 206
302 West First Street
Santa Ana, CA

Date	VW-5				VW-6				VW-12				Screen Interval 13-33				Screen Interval 20-35				Screen Interval 21-36				Screen Interval 10-30				VW-15								
	% Open	Vacuum (in. H ₂ O)	VFW Open	(ppmw)	% Vacuum (in. H ₂ O)	VFW (ppmw)	% Open	Vacuum (in. H ₂ O)	VFW Open	(ppmw)	% Vacuum (in. H ₂ O)	VFW Open	(ppmw)	% Vacuum (in. H ₂ O)	VFW Open	(ppmw)	% Vacuum (in. H ₂ O)	VFW Open	(ppmw)	% Vacuum (in. H ₂ O)	VFW Open	(ppmw)	% Vacuum (in. H ₂ O)	VFW Open	(ppmw)	% Vacuum (in. H ₂ O)	VFW Open	(ppmw)	% Vacuum (in. H ₂ O)	VFW Open	(ppmw)						
11/06/00	100	50	(2100)	1248	100	50	(6500)	1924	100	50	(3900)	1250	100	50	(2000)	630	0	0	NM	100	50	(890)	266	100	50	(1200)	700	42	367	100	42	891					
11/07/00	100	42	971	100	42	2017	100	42	1169	100	42	540	0	0	NM	100	42	302	100	42	39	260	39	302	100	42	39	260	39	260							
11/08/00	100	39	693	100	39	1964	100	39	981	100	39	523	0	0	NM	100	43	782	100	43	43	510	43	782	100	43	43	510	43	510							
11/09/00	100	43	1250	100	43	3567	100	43	2190	100	43	1330	0	0	NM	100	40	961	100	40	40	864	40	961	100	40	40	864	40	864							
11/10/00	100	40	1176	100	40	3711	100	40	1075	100	40	1219	0	0	NM	100	38	988	100	38	38	857	38	988	100	38	38	857	38	857							
11/11/00	100	38	12.3	100	38	41.8	100	38	11.6	100	38	12.1	0	0	NM	100	38	901	100	38	38	923	38	901	100	38	38	923	38	923							
11/12/00	100	38	1236	100	38	2269	100	38	971	100	38	1246	0	0	NM	100	35	NM	0	0	NM	100	35	NM	100	35	NM	100	35	NM	100	35	NM				
11/15/00	100	35	NM	100	35	NM	100	35	NM	100	35	NM	0	0	NM	100	38	NM	100	38	NM	100	38	NM	100	38	NM	100	38	NM	100	38	NM				
11/22/00	100	38	NM	100	38	NM	100	38	NM	100	38	NM	0	0	NM	100	39	492	100	39	39	145	39	492	100	39	39	145	39	145							
11/27/00	100	39	492	100	39	2861	100	39	1067	100	39	1612	0	0	NM	100	39	NM	100	39	550	100	39	259	100	39	550	100	39	259	100	39	259				
12/07/00	100	39	563	100	39	2546	100	39	971	100	39	1733	0	0	NM	100	39	NM	100	39	636	100	41	210	100	41	636	100	41	210	100	41	210				
12/11/00	100	41	479	100	41	2172	100	41	1027	100	41	1811	0	0	0	100	44	333	100	44	44	426	44	333	100	44	44	426	44	426							
12/22/00	100	44	569	100	44	1580	100	44	1564	100	44	1581	0	0	0	100	50	370	100	50	50	510	50	370	100	50	50	510	50	510							
12/27/00	100	50	681	100	50	1477	100	50	1611	100	50	1539	0	0	0	100	50	80	494	100	50	50	381	50	80	494	100	50	381								
01/02/01	100	80	725	100	80	1450	100	80	1671	100	80	1297	0	0	0	100	80	NM	100	80	NM	100	80	NM	100	80	NM	100	80	NM							
01/10/01	100	80	NM	100	80	NM	100	80	NM	100	80	NM	0	0	NM	100	75	NM	100	75	NM	100	75	NM	100	75	NM	100	75	NM							
01/15/01	100	75	NM	100	75	NM	100	75	NM	100	75	NM	0	0	NM	100	60	(370)	1176	100	60	(270)	581	100	60	(270)	581	100	60	(270)	581	100	(49)	467			
01/22/01	100	60	(740)	659	100	60	(180)	1511	100	60	(1300)	1626	100	60	(3200)	1343	100	60	(370)	1176	100	60	(370)	1176	100	60	(370)	1176	100	60	(370)	1176	100	60	(370)	1176	100
01/29/01	100	60	NM	100	60	NM	100	60	NM	100	60	NM	0	0	NM	100	60	NM	100	60	NM	100	60	NM	100	60	NM	100	60	NM	100	60	NM				
02/05/01	100	40	NM	100	40	NM	100	40	NM	100	40	NM	0	0	NM	100	40	NM	100	40	NM	100	40	NM	100	40	NM	100	40	NM	100	40	NM				
02/12/01	100	85	432	100	85	2575	100	85	2552	100	85	2278	0	0	85	230	100	64	NM	100	64	NM	100	64	NM	100	64	NM	100	64	NM	100	64	NM			
03/20/01	100	64	NM	100	64	NM	100	64	NM	100	64	NM	0	0	NM	100	62	NM	100	62	NM	100	62	NM	100	62	NM	100	62	NM	100	62	NM				
03/27/01	100	61	NM	100	61	NM	100	61	NM	100	61	NM	0	0	NM	100	61	NM	100	61	NM	100	61	NM	100	61	NM	100	61	NM	100	61	NM				
04/02/01	100	62	NM	100	62	NM	100	62	NM	100	62	NM	0	0	NM	100	62	NM	100	62	NM	100	62	NM	100	62	NM	100	62	NM	100	62	NM				
04/09/01	100	64	NM	100	64	NM	100	64	NM	100	64	NM	0	0	NM	100	64	NM	100	64	NM	100	64	NM	100	64	NM	100	64	NM	100	64	NM				
04/16/01	100	64	NM	100	64	NM	100	64	NM	100	64	NM	0	0	NM	100	64	NM	100	64	NM	100	64	NM	100	64	NM	100	64	NM	100	64	NM				
04/23/01	100	61	NM	100	61	NM	100	61	NM	100	61	NM	0	0	NM	100	61	NM	100	61	NM	100	61	NM	100	61	NM	100	61	NM	100	61	NM				
05/01/01	100	62	NM	100	62	NM	100	62	NM	100	62	NM	0	0	NM	100	62	NM	100	62	NM	100	62	NM	100	62	NM	100	62	NM	100	62	NM				
05/07/01	100	60	1264	100	60	857	100	60	3001	100	60	3431	0	0	60	280	100	60	280	100	60	276	100	60	276	100	60	276	100	60	276	100	60	276			
05/14/01	100	60	NM	100	60	2211	100	60	1460	100	60	3755	0	0	NM	100	60	NM	100	60	NM	100	60	NM	100	60	NM	100	60	NM	100	60	NM				
05/21/01	100	60	1452	100	60	2331	100	70	2839	100	70	2310	0	0	70	3910	100	70	1016	100	70	1016	100	70	231	100	70	231	100	70	231	100	70	231			
06/05/01	100	70	NM	100	64	NM	100	64	NM	100	64	NM	0	0	NM	100	64	NM	100	64	NM	100	64	NM	100	64	NM	100	64	NM	100	64	NM				
06/12/01	100	60	NM	100	60	NM	100	60	NM	100	60	NM	0	0	NM	100	60	NM	100	60	NM	100	60	NM	100	60	NM	100	60	NM	100	60	NM				
06/19/01	100	64	NM	100	64	NM	100	64	NM	100	64	NM	0	0	NM	100	64	NM	100	64	NM	100	64	NM	100	64	NM	100	64	NM	100	64	NM				
07/03/01	100	55	1964	100	55	2565	100	55	2119	100	55	5547	0	0	NM	100	60	NM	100	60	NM	100	60	NM	100	60	NM	100	60	NM	100	60	NM				
08/16/01	100	44	897	100	44	2850	100	44	17.5	100	44	2297	0	0	NM	100	40	NM	100	40	NM	100	40	NM	100	40	NM	100	40	NM	100	40	NM				
08/20/01	100	40	NM	100	40	NM	100	40	4986	100	60	35.6	0	0	NM	100	60	NM	100	60	NM	100	60	NM	100	60	NM	100	60	NM	100	60	NM				
10/09/01	100	70	NM	100	70	NM	100	70	NM	100	70	NM	0	0	NM	100	70	NM	100	70	NM	100	70	NM	100	70	NM	100	70	NM	100	70	NM				
10/18/01	100	78	NM	100	78	NM	100	78	NM	100	78	NM	0	0	NM	100	75	NM	100	75	NM	100	75	NM	100	75	NM	100	75	NM	100	75	NM				
10/22/01	100	75	NM	100	75	NM	100	75	NM	100	75</																										

TABLE 4

WELL SOURCE DATA
 ARCO Facility No. 206
 302 West First Street
 Santa Ana, CA

Date	VW-5				VW-6				VW-12				VW-13				Screen Interval 20-35				Screen Interval 21-36				VW-14				VW-15					
	% Vacuum Open (in. H ₂ O)	VFWH (ppmv)																																
11/06/01	100	80	NM	100	80	NM	50	80	NM	100	80	NM	100	80	NM	100	80	NM	100	80	NM	100	80	NM	100	80	NM	100	80	NM				
11/15/01	100	68	NM	100	68	NM	100	68	NM	100	68	NM	100	68	NM	100	68	NM	100	68	NM	100	68	NM	100	68	NM	100	68	NM				
11/27/01	25	104	171	100	111	933	10	110	108	100	105	838	25	48	167	0	0	NM	0	0	NM	0	0	NM	0	0	NM	0	0	NM				
02/21/02	50	30	51.3	100	34	148	0	0	NM	100	36	345	50	34	74.6	0	0	NM	0	0	NM	0	0	NM	0	0	NM	0	0	NM				
02/25/02	50	26	NM	100	30	NM	0	0	NM	100	30	NM	50	24	NM	0	0	NM	0	0	NM	0	0	NM	0	0	NM	0	0	NM				
03/06/02	50	28	48.2	100	31	127	0	0	NM	100	31	352	50	28	70.8	0	0	NM	0	0	NM	0	0	NM	0	0	NM	0	0	NM				
03/15/02	50	15	37.9	100	26	116	0	0	NM	100	24	315	50	15	61.2	0	0	NM	0	0	NM	0	0	NM	0	0	NM	0	0	NM				
03/22/02	50	23	304	100	24	1240	0	0	NM	100	25	2512	50	12	771	0	0	NM	0	0	NM	0	0	NM	0	0	NM	0	0	NM				
03/25/02	50	15	269	100	24	984	0	0	NM	100	24	1167	50	15	589	0	0	NM	0	0	NM	0	0	NM	0	0	NM	0	0	NM				
04/04/02	50	15	246	100	24	1072	0	0	NM	100	24	2551	50	15	766	0	0	NM	0	0	NM	0	0	NM	0	0	NM	0	0	NM				
04/12/02	0	NM	NM	100	28	4066	0	NM	100	28	2463	0	NM	100	28	2463	0	NM	0	NM														
04/17/02	0	0	0	100	40	3562	0	0	NM	100	40	2189	0	0	NM	0	0	NM	0	0	NM	0	0	NM	0	0	NM	0	0	NM				
04/22/02	0	0	0	100	40	3391	0	0	NM	100	40	1996	0	0	NM	0	0	NM	0	0	NM	0	0	NM	0	0	NM	0	0	NM				
04/20/02	0	0	0	100	54	3788	0	0	NM	100	54	2134	0	0	NM	0	0	NM	0	0	NM	0	0	NM	0	0	NM	0	0	NM				
05/10/02	0	NM	0	100	NM	74	0	NM	100	NM	64	0	NM	100	NM	64	0	NM	0	NM														
06/28/02	0	NM	(12).52	100	NM	(180).3804	0	NM	(100).0	NM	(13).0	NM	100	NM	(130).1531	0	NM	0	NM	0	NM													
07/06/02	0	NM	NM	100	NM	NM	0	NM	NM	NM	NM	0	NM	NM	NM	0	NM	0	NM															
07/11/02	0	NM	NM	100	NM	NM	0	NM	NM	NM	NM	0	NM	NM	NM	0	NM	0	NM															
07/15/02	0	NM	NM	100	NM	NM	0	NM	NM	NM	NM	0	NM	NM	NM	0	NM	0	NM															
07/24/02	0	NM	NM	100	NM	NM	0	NM	NM	NM	NM	0	NM	NM	NM	0	NM	0	NM															
08/02/02	0	NM	NM	100	NM	NM	0	NM	NM	NM	NM	0	NM	NM	NM	0	NM	0	NM															
08/20/02	0	NM	NM	100	NM	NM	0	NM	NM	NM	NM	0	NM	NM	NM	0	NM	0	NM															
09/20/02	100	20	240	100	20	1726	0	0	NM	100	20	17	100	20	215	100	20	235.4	0	NM	0	NM												
09/24/02	100	80	408	100	80	(450).921	0	NM	100	NM	50	10	16	—	—	NM	100	NM	100	NM	100	NM												
10/04/02	100	NM	(230)	100	NM	(440)	0	NM	(1400)	0	NM	(4.0).NM	100	NM	(4.0).NM	100	NM	100	NM	100	NM													
10/10/02	100	NM	NM	100	NM	NM	0	NM	NM	NM	NM	0	NM	NM	NM	0	NM	0	NM															
10/15/02	100	NM	NM	100	NM	NM	0	NM	NM	NM	NM	0	NM	NM	NM	0	NM	0	NM															
10/22/02	100	NM	NM	100	NM	NM	0	NM	NM	NM	NM	0	NM	NM	NM	0	NM	0	NM															
10/31/02	100	NM	NM	100	NM	NM	0	NM	NM	NM	NM	0	NM	NM	NM	0	NM	0	NM															
11/07/02	100	NM	NM	100	NM	NM	0	NM	NM	NM	NM	0	NM	NM	NM	0	NM	0	NM															
11/14/02	100	NM	NM	100	NM	NM	0	NM	NM	NM	NM	0	NM	NM	NM	0	NM	0	NM															
01/12/03	100	NM	NM	100	NM	NM	0	NM	NM	NM	NM	0	NM	NM	NM	0	NM	0	NM															
02/20/03	100	104.5	>4,000	100	104.6	>4,000	100	NM	206	100	NM	2338	0	NM	100	NM	100	NM	100	NM														
02/27/03	100	96.1	2503	100	94.1	2528	100	NM	2608	100	NM	109	0	NM	100	NM	100	NM	100	NM														
03/06/03	100	109	2431	100	108	186	100	NM	106.3	100	NM	1967	0	NM	100	NM	100	NM	100	NM														
03/12/03	100	NM	869	100	NM	436	100	NM	104.9	100	NM	>4,000	100	NM	104.9	100	NM	104.9	100	NM	104.9	100	NM	104.9	100	NM	104.9	100	NM	104.9	100	NM		
03/19/03	100	106	452	100	106.5	124	100	NM	106.1	100	NM	1271	0	NM	100	NM	100	NM	100	NM														
03/27/03	100	96.1	2503	100	94.1	2528	100	NM	2608	100	NM	109	0	NM	100	NM	100	NM	100	NM														
04/02/03	100	109	2431	100	108	186	100	NM	106.3	100	NM	1967	0	NM	100	NM	100	NM	100	NM														
04/20/03	100	NM	109	2431	100	108	186	100	NM	106.3	100	NM	1967	0	NM	100	NM	100	NM	100	NM													
04/30/03	100	NM	109	2431	100	108	186	100	NM	106.3	100	NM	1967	0	NM	100	NM	100	NM	100	NM													
07/15/03	100	NM	1750	100	NM	3200	100	NM	100	NM	100	NM	100	NM																				
07/22/03	100	NM	(520).412	100	92	(1200).1256	100	>100	(140).1010	0	NM	>100	(140).1010	0	NM	>100	(140).1010	0	NM	>100	(200).122</													

TABLE 4

WELL SOURCE DATA
 ARCO Facility No. 206
 302 West First Street
 Santa Ana, CA

Date	WELL IDENTIFICATION NUMBER												VW-15			VW-16				
	VW-5			VW-6			VW-12			VW-13			VW-14			VW-15				
	Screen Interval 13-33		% Vacuum	Screen Interval 13-33		% Vacuum	Screen Interval 20-35		% Vacuum	Screen Interval 20-35		% Vacuum	Screen Interval 21-36		% Vacuum	Screen Interval 21-36		% Vacuum		
	Open	(in. H ₂ O)	VFWH (ppmw)	Open	(in. H ₂ O)	VFWH (ppmw)	Open	(in. H ₂ O)	VFWH (ppmw)	Open	(in. H ₂ O)	VFWH (ppmw)	Open	(in. H ₂ O)	VFWH (ppmw)	Open	(in. H ₂ O)	VFWH (ppmw)		
08/05/03	100	NM	400	100	NM	997	100	NM	960	0	NM	NM	100	NM	115	100	NM	0	NM	
08/12/03	100	NM	350	100	NM	>4,000	100	90	>4,000	0	NM	NM	100	88.4	>4,000	100	88.8	3482	100	
08/19/03	100	89.2	1197	100	90.1	>4,000	100	89.9	>4,000	0	NM	NM	100	87	>4,000	100	88.2	3605	100	
08/26/03	100	90	1042	100	90.2	>4,000	100	87	1768	0	NM	NM	100	89	444	100	88	376	100	
09/04/03	100	87	720	100	90	1202	100	87	1649	0	NM	NM	100	80	503	100	84	218	100	
09/11/03	100	85	680	100	91	1215	100	85	1649	0	NM	NM	100	80	503	100	84	218	100	
09/17/03	100	NM	734	100	NM	1348	100	NM	936	0	NM	NM	100	19	NM	201	100	NM	163	
09/24/03	100	19	NM	100	19	NM	100	19	NM	0	19	NM	100	19	NM	100	19	NM	19	
10/15/03	100	>100	(77)125.6	100	>100	(280)1407	100	>100	(12)21.3	0	NM	(20)82.5	100	>100	(9.5)37	0	NM	(<2.4)1.1	100	
10/22/03	100	150	245.7	100	150	605.5	100	150	471.3	0	0	14.4	100	145	37.1	5-15	14	4.7	0	1.4
10/28/03	100	145	301.4	100	145	458.8	100	145	479.8	0	NM	4.5	100	130	42.7	0	NM	0.9	5-10	
11/06/03	100	115	236	100	115	411	100	120	427	0	NM	7	100	105	27	0	NM	1	0	
11/13/03	100	110	(220)245.6	100	116	(490)386.1	100	110	(240)240.3	0	NM	(16)22	100	100	(26)36.6	0	NM	(18)16.5	0	
11/20/03	100	120	268	100	120	382.6	100	120	234.7	0	NM	18.4	100	120	NM	0	NM	11.8	0	
11/26/03	100	130	276.6	100	130	328.1	100	130	109.2	0	NM	1.3	100	NM	0	NM	0.4	0	NM	
12/04/03	100	120	183.4	100	120	280.4	100	120	116.1	0	NM	2.3	100	120	82.4	0	NM	0	0	
12/09/03	100	NM	NM	100	NM	NM	100	NM	NM	0	NM	NM	100	NM	NM	0	NM	0	NM	
12/16/03	0	NM	(120)NM	0	NM	(290)NM	0	NM	(110)NM	0	NM	(32)NM	0	NM	(15)NM	0	NM	(21)NM	0	
01/20/04	100	86	(7.8)237	100	86	(6.8)380	100	86	(5.3)210	50	NM	80	(5.1)27	0	NM	(33)54	0	NM	(<2.4)0	0
01/27/04	100	84	220	100	84	346	100	84	197	50	78	25	0	NM	56	0	NM	0	0	
02/03/04	100	76	(280)211	100	76	(480)341	100	76	(190)186	50	73	(25)17	0	NM	(46)49	0	NM	(14)0	0	
02/10/04	100	76	197	100	76	331	100	78	174	50	74	15	0	NM	47	0	NM	0	0	
02/17/04	100	NM	NM	100	NM	NM	100	NM	NM	50	NM	NM	0	NM	NM	0	NM	0	NM	
02/24/04	100	NM	NM	100	NM	NM	100	NM	NM	50	NM	NM	0	NM	NM	0	NM	0	NM	
03/05/04	100	NM	(270)140	100	NM	(430)330	100	NM	(190)210	50	NM	(7.5)35	0	NM	NM	0	NM	0	NM	
04/07/04	100	NM	NM	100	NM	NM	100	NM	NM	50	NM	NM	0	NM	NM	0	NM	0	NM	
04/15/04	100	NM	NM	180	100	NM	310	100	NM	220	50	NM	30	0	NM	NM	0	NM	0	
04/21/04	100	NM	NM	100	NM	NM	100	NM	NM	50	NM	NM	0	NM	NM	0	NM	0	NM	
04/26/04	100	NM	NM	100	NM	NM	100	NM	NM	50	NM	NM	0	NM	NM	0	NM	0	NM	
05/05/04	100	NM	(330)140	100	NM	(360)260	100	NM	(200)200	50	NM	(<2.4)40	0	NM	NM	0	NM	0	NM	
06/04/04	100	NM	NM	100	NM	NM	100	NM	NM	50	NM	NM	0	NM	NM	0	NM	0	NM	
06/09/04	100	NM	NM	100	NM	NM	100	NM	NM	50	NM	NM	0	NM	NM	0	NM	0	NM	
06/16/04	100	NM	NM	100	NM	NM	100	NM	NM	50	NM	NM	0	NM	NM	0	NM	0	NM	
06/21/04	100	NM	NM	100	NM	NM	100	NM	NM	50	NM	NM	0	NM	NM	0	NM	0	NM	
06/28/04	100	NM	NM	100	NM	NM	100	NM	NM	50	NM	NM	0	NM	NM	0	NM	0	NM	
07/10/04	100	74	(220)150	100	74	(170)240	100	74	(69)230	50	5	(7.2)40	0	NM	NM	0	NM	0	NM	
08/10/04	100	NM	NM	100	NM	NM	100	NM	NM	50	NM	NM	0	NM	NM	0	NM	0	NM	
08/19/04	100	NM	NM	100	NM	NM	100	NM	NM	50	NM	NM	0	NM	NM	0	NM	0	NM	
08/24/04	100	74	180	100	74	300	100	74	270	50	4	40	0	NM	NM	0	NM	0	NM	
09/01/04	100	75	190	100	75	250	100	75	260	50	4	40	0	NM	NM	0	NM	0	NM	
09/08/04	100	75	(150)170	100	75	(92)220	100	75	(50)240	50	4	(5.1)30	0	NM	NM	0	NM	0	NM	
10/04/04	100	15	(120)182	100	15	(66)161	100	15	(53)90	100	15	(29)33	100	15	(27)32	0	NM	(3.2)0	0	
10/11/04	100	97	101	100	97	184	100	97	27	50	0	NM	0	NM	0	NM	0	NM	0	

TABLE 4

WELL SOURCE DATA
 ARCO Facility No. 206
 302 West First Street
 Santa Ana, CA

Date	WELL IDENTIFICATION NUMBER												VW-16					
	VW-5			VW-6			VW-12			VW-13				VW-14				
	Screen Interval 13-33		% Vacuum Open (in. H ₂ O)	VFH (ppmv)	Screen Interval 13-33		Screen Interval 20-35		% Vacuum Open (in. H ₂ O)	VFH (ppmv)	Screen Interval 20-35		% Vacuum Open (in. H ₂ O)	VFH (ppmv)	Screen Interval 21-36		Screen Interval 10-30	
Date	% Vacuum Open (in. H ₂ O)	VFH (ppmv)	% Vacuum Open (in. H ₂ O)	VFH (ppmv)	% Vacuum Open (in. H ₂ O)	VFH (ppmv)	% Vacuum Open (in. H ₂ O)	VFH (ppmv)	% Vacuum Open (in. H ₂ O)	VFH (ppmv)	% Vacuum Open (in. H ₂ O)	VFH (ppmv)	% Vacuum Open (in. H ₂ O)	VFH (ppmv)	% Vacuum Open (in. H ₂ O)	VFH (ppmv)	Screen Interval 10-30	
10/18/04	100	96	89	100	96	176	100	96	19	50	96	0	0	NM	0	0	NM	0
10/25/04	100	98	144	100	98	130	100	98	70	50	98	0	0	NM	0	0	NM	0
11/01/04	100	19	(120) 23	100	19	(37) 25	100	19	(36) 27	100	19	(13) 4	100	19	(4.8) 0	100	19	(5.4) 0
12/01/04	100	15	(5.6) 74	100	15	(<2.4) 905	100	15	(3.0) 82	100	15	(12) 70	100	15	(52) 69	0	0	NM (<2.4) 0
12/07/04	100	93	19	100	93	509	100	93	5	0	NM	0	100	93	0	100	93	0
12/14/04	100	90	152	100	90	189	100	90	66	0	NM	0	100	90	0*	100	90	18
12/20/04	100	90	NM	100	90	NM	100	90	NM	0	NM	0	100	90	NM	100	90	NM
12/28/04	100	86	139	100	86	177	100	86	40	0	NM	0	100	86	*	100	86	20
01/03/05	100	20	(88) 70	100	20	(27) 21	100	20	(16) 10	100	20	(4.6) 5	100	20	(11) 11	100	20	(3.9) 0.5
02/01/05	100	40	(70) 94	100	40	(15) 13	0	NM	(4.4) 1	50	6	(43) 70	0	NM	(<2.4) 3	100	40	(6.5) 29
02/08/05	100	40	81	100	40	11	0	NM	0	50	8	68	0	NM	1	100	40	24
02/14/05	100	44	15	100	44	4	0	NM	0	50	8	17	0	NM	2	100	44	1
02/21/05	100	46	93	100	46	61	0	NM	0	100	8	72	0	NM	0	100	46	12
02/28/05	100	NM	(9.7) 10	100	NM	(4.8) 70	100	NM	(<2.4) 2.8	100	NM	(12) 15	100	NM	(3.8) 4	100	NM	(<2.4) 0

Notes:
 () = Laboratory result
 VFH = Volatile Fuel Hydrocarbons
 ppmv = Parts per million by volume
 NM = Not Measured
 * = moisture present

TABLE 5
INDIVIDUAL WELL ANALYTICAL DATA
ARCO Facility No. 206
302 West First Street
Santa Ana, CA

Sample ID	Date	VFH (ppmv)	Benzene (ppmv)	Toluene (ppmv)	Ethylbenzene (ppmv)	Total Xylenes (ppmv)	MTBE (ppmv)
VW-5	06/28/02	12	<1.2	<1.1	<0.92	<0.92	<2.8
	10/10/02	230	<1.6	8.0	1.2	20	<1.4
	07/29/03	520	2.6	19	6.1	72	<1.4
	10/15/03	77	<1.6	6.8	<1.2	9.6	<1.4
	11/13/03	220	1.7	12	2.5	34	<1.4
	12/16/03	120	<1.6	2.0	<1.2	16	<1.4
	01/22/04	7.8	<1.6	<1.3	<1.2	<3.5	<1.4
	02/06/04	280	<1.6	6.9	1.6	38	<1.4
	03/05/04	270	<1.6	8.4	2.3	36	<1.4
	05/05/04	330	<1.6	7.1	1.9	24	<1.4
	07/10/04	220	<1.6	7.6	1.6	28	<1.4
	09/08/04	150	<1.6	6.3	<1.2	17	<1.4
	10/04/04	120	<1.6	2.1	<1.2	8.9	<1.4
	11/01/04	120	<1.6	4.3	<1.2	17	<1.4
	12/01/04	5.6	<1.6	<1.3	<1.2	<3.5	<1.4
	01/03/05	88	<1.6	1.9	<1.2	8.0	<1.4
	02/01/05	70	<1.6	1.6	<1.2	5.9	<1.4
	02/28/05	9.7	<1.6	<1.3	<1.2	<3.5	<1.4
VW-6	06/28/02	180	1.2	4.4	<0.92	4.3	54
	09/24/02	450	3.8	17	2.2	44	<1.4
	10/10/02	440	<1.6	10	1.7	45	<1.4
	07/29/03	1200	8.5	46	9.4	120	1.9
	10/15/03	280	9.9	16	1.9	21	4.5
	11/13/03	490	4.3	27	5.5	70	<1.4
	12/16/03	290	<1.6	7.7	3.2	44	<1.4
	01/22/04	6.8	<1.6	<1.3	<1.2	<3.5	<1.4
	02/06/04	480	3.1	13	4.3	79	<1.4
	03/05/04	430	4.6	19	3.0	48	2.6
	05/05/04	360	<1.6	7.2	1.9	27	<1.4
	07/10/04	170	<1.6	4.3	<1.2	20	<1.4
	09/08/04	92	<1.6	2.4	<1.2	11	<1.4
	10/04/04	66	<1.6	<1.3	<1.2	6.4	<1.4
	11/01/04	37	<1.6	<1.3	<1.2	4.9	<1.4
	12/01/04	<2.4	<1.6	<1.3	<1.2	<3.5	<1.4
	01/03/05	27	<1.6	<1.3	<1.2	<3.5	<1.4
	02/01/05	15	<1.6	<1.3	<1.2	<3.5	<1.4
	02/28/05	4.8	<1.6	<1.3	<1.2	<3.5	<1.4
VW-12	06/28/02	13	<1.2	<1.1	<0.92	<0.92	<2.8
	10/10/02	1400	14	81	12	110	5.3
	07/29/03	140	<1.6	<1.3	<1.2	11	<1.4
	10/15/03	12	<1.6	<1.3	<1.2	<3.5	<1.4
	11/13/03	240	2.4	18	2.3	21	<1.4
	12/16/03	110	<1.6	1.5	<1.2	13	<1.4
	01/22/04	5.3	<1.6	<1.3	<1.2	<3.5	<1.4
	02/06/04	190	<1.6	4.8	1.3	29	4.4
	03/05/04	190	<1.6	5.0	1.4	19	<1.4
	05/05/04	200	<1.6	3.1	<1.2	11	<1.4
	07/10/04	69	<1.6	<1.3	<1.2	<3.5	<1.4
	09/08/04	50	<1.6	<1.3	<1.2	<3.5	<1.4
	10/04/04	53	<1.6	<1.3	<1.2	3.6	<1.4
	11/01/04	36	<1.6	<1.3	<1.2	4.9	<1.4
	12/01/04	3.0	<1.6	<1.3	<1.2	<3.5	<1.4
	01/03/05	16	<1.6	<1.3	<1.2	<3.5	<1.4

TABLE 5
INDIVIDUAL WELL ANALYTICAL DATA
ARCO Facility No. 206
302 West First Street
Santa Ana, CA

Sample ID	Date	VFH (ppmv)	Benzene (ppmv)	Toluene (ppmv)	Ethylbenzene (ppmv)	Total Xylenes (ppmv)	MTBE (ppmv)
VW-12	02/01/05	4.4	<1.6	<1.3	<1.2	<3.5	<1.4
(cont.)	02/28/05	<2.4	<1.6	<1.3	<1.2	<3.5	<1.4
VW-13	06/28/02	130	<1.2	<1.1	<0.92	<0.92	<2.8
	10/10/02	4.0	<1.6	<1.3	<1.2	<1.2	<1.4
	10/15/03	20	<1.6	<1.3	<1.2	<3.5	<1.4
	11/13/03	16	<1.6	<1.3	<1.2	<3.5	<1.4
	12/16/03	32	<1.6	<1.3	<1.2	<3.5	<1.4
	01/22/04	5.1	<1.6	<1.3	<1.2	<3.5	<1.4
	02/06/04	25	<1.6	<1.3	<1.2	<3.5	<1.4
	03/05/04	7.5	<1.6	<1.3	<1.2	<3.5	<1.4
	05/05/04	<2.4	<1.6	<1.3	<1.2	<3.5	<1.4
	07/10/04	7.2	<1.6	<1.3	<1.2	<3.5	<1.4
	09/08/04	5.1	<1.6	<1.3	<1.2	<3.5	<1.4
	10/04/04	29	<1.6	1.7	<1.2	<3.5	<1.4
	11/01/04	13	<1.6	<1.3	<1.2	<3.5	<1.4
	12/01/04	12	<1.6	<1.3	<1.2	<3.5	<1.4
	01/03/05	4.6	<1.6	<1.3	<1.2	<3.5	<1.4
	02/01/05	43	<1.6	2.9	<1.2	<3.5	<1.4
	02/28/05	12	<1.6	<1.3	<1.2	<3.5	<1.4
VW-14	07/29/03	200	<1.6	5.9	1.5	23	<1.4
	10/15/03	9.5	<1.6	<1.3	<1.2	<3.5	<1.4
	11/13/03	26	<1.6	1.3	<1.2	<3.5	<1.4
	12/16/03	15	<1.6	<1.3	<1.2	<3.5	<1.4
	01/22/04	33	<1.6	<1.3	<1.2	<3.5	<1.4
	02/06/04	46	<1.6	<1.3	<1.2	3.9	<1.4
	10/04/04	27	<1.6	1.4	<1.2	<3.5	<1.4
	11/01/04	9.6	<1.6	<1.3	<1.2	<3.5	<1.4
	12/01/04	52	<1.6	<1.3	<1.2	<3.5	<1.4
	01/03/05	11	<1.6	<1.3	<1.2	<3.5	<1.4
	02/01/05	<2.4	<1.6	<1.3	<1.2	<3.5	<1.4
	02/28/05	3.8	<1.6	<1.3	<1.2	<3.5	<1.4
VW-15	06/28/02	8.5	<1.2	<1.1	<0.92	<0.92	<2.8
	10/10/02	79	<1.6	1.6	<1.2	6.5	<1.4
	07/29/03	61	<1.6	<1.3	<1.2	<3.5	<1.4
	10/15/03	<2.4	<1.6	<1.3	<1.2	<3.5	<1.4
	11/13/03	18	<1.6	<1.3	<1.2	<3.5	<1.4
	12/16/03	21	<1.6	<1.3	<1.2	<3.5	<1.4
	01/22/04	<2.4	<1.6	<1.3	<1.2	<3.5	<1.4
	02/06/04	14	<1.6	<1.3	<1.2	<3.5	<1.4
	10/04/04	3.2	<1.6	<1.3	<1.2	<3.5	<1.4
	11/01/04	4.8	<1.6	<1.3	<1.2	<3.5	<1.4
	12/01/04	<2.4	<1.6	<1.3	<1.2	<3.5	<1.4
	01/03/05	3.9	<1.6	<1.3	<1.2	<3.5	<1.4
	02/01/05	6.5	<1.6	<1.3	<1.2	<3.5	<1.4
	02/28/05	<2.4	<1.6	<1.3	<1.2	<3.5	<1.4
VW-16	06/28/02	9.9	<1.2	<1.1	<0.92	<0.92	<2.8
	10/10/02	12	<1.6	<1.3	<1.2	<1.2	<1.4
	07/29/03	51	<1.6	<1.3	<1.2	3.8	<1.4
	10/15/03	<2.4	<1.6	<1.3	<1.2	<3.5	<1.4
	11/13/03	<2.4	<1.6	<1.3	<1.2	<3.5	<1.4
	12/16/03	<2.4	<1.6	<1.3	<1.2	<3.5	<1.4

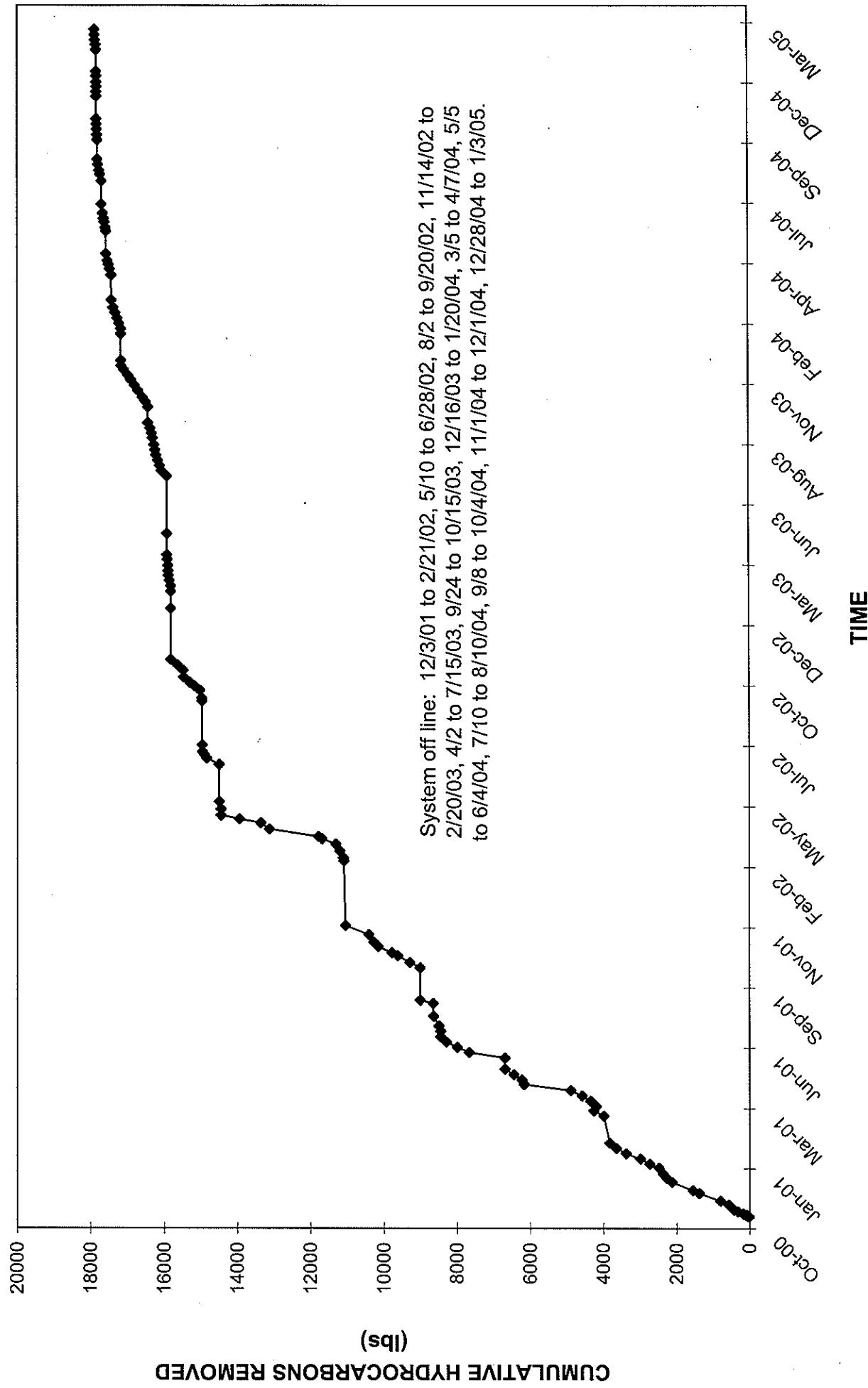
TABLE 5
INDIVIDUAL WELL ANALYTICAL DATA
ARCO Facility No. 206
302 West First Street
Santa Ana, CA

Sample ID	Date	VFH (ppmv)	Benzene (ppmv)	Toluene (ppmv)	Ethylbenzene (ppmv)	Total Xylenes (ppmv)	MTBE (ppmv)
VW-16	01/22/04	4.1	<1.6	<1.3	<1.2	<3.5	<1.4
(cont.)	02/06/04	<2.4	<1.6	<1.3	<1.2	<3.5	<1.4
	10/04/04	2.5	<1.6	<1.3	<1.2	<3.5	<1.4
	11/01/04	5.4	<1.6	<1.3	<1.2	<3.5	<1.4
	12/01/04	<2.4	<1.6	<1.3	<1.2	<3.5	<1.4
	01/03/05	<2.4	<1.6	<1.3	<1.2	<3.5	<1.4
	02/01/05	3.2	<1.6	<1.3	<1.2	<3.5	<1.4
	02/28/05	<2.4	<1.6	<1.3	<1.2	<3.5	<1.4

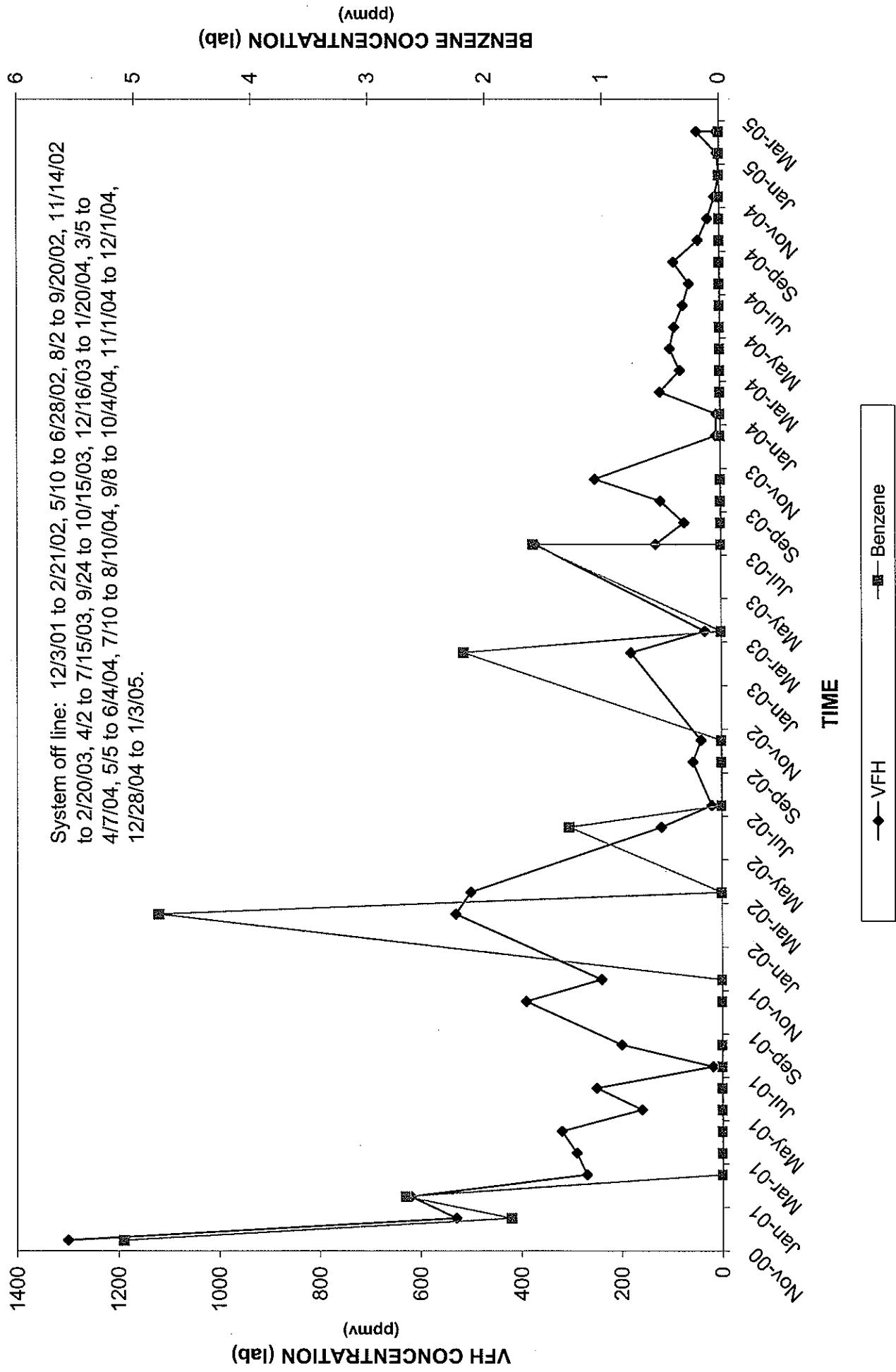
Notes:

VFH	= Volatile Fuel Hydrocarbons
MTBE	= Methyl Tertiary Butyl Ether
ppmv	= parts per million volume
<1.2	= Not detect at listed laboratory reporting limit

GRAPH 1
SVE SYSTEM PERFORMANCE
ARCO Facility No. 206



GRAPH 2
INFLUENT VFH & BENZENE CONCENTRATIONS vs. TIME
 ARCO Facility No. 206



ATTACHMENT A

SAFD Letters Dated March 30 and July 5, 2005

MAYOR
Miguel A. Pulido
MAYOR PRO TEM
Lisa Bist
COUNCIL MEMBERS
Claudia C. Alvarez
Carlos Bustamante
Alberta D. Christy
Mike Garcia
Jose Solorio



CITY MANAGER
David N. Ream
CITY ATTORNEY
Joseph W. Fletcher
CLERK OF THE COUNCIL
Patricia E. Healy

APR 11 2005

CITY OF SANTA ANA

FIRE DEPARTMENT
1439 SO. BROADWAY
SANTA ANA, CALIFORNIA 92707

March 30, 2005

Mr. Darrell Fah
BP West Coast Products LLC
4 Centrepointe Drive
La Palma, CA 90623

**Re: Response to February 4, 2005 letter from Delta Environmental Consultants, Inc.
ARCO Facility # 206 302 W. First Street Santa Ana, CA**

Dear Mr. Fah,

I have read the "Work Plan for Confirmation Soil Borings" prepared by your consultant, Delta Environmental Consultants, Inc., dated February 4, 2005. The Santa Ana Fire Department does not approve the work plan for the following reasons. Upon review of all the reports listed in the references section, the following conditions at this site are present. The location of confirmation soil boring CSB-4 is under the south end of the west tank, not the east tank as shown in the work plan. The main body of the petroleum hydrocarbon contamination is found in line with the northwest corner of dispenser #5 and boring VW-6 (formerly B-6) at depths between 10 and 40 feet below grade. Only one of the three proposed confirmation borings is located in the main body of the petroleum hydrocarbon contamination. The location of proposed boring CSB-7 is in a location that has already been confirmed clean (ND). The proposed location of boring CSB-6 is in an area already documented having less than 50 ppm TPH. Neither boring CSB-6 nor CSB-7 will identify a reduction of the petroleum hydrocarbon contamination in the main plume at the site.

If you have any questions, please feel free to call me at (714) 647-5761.

Sincerely,

A handwritten signature in cursive ink that reads "Jay Bento".

JAY BENTO, UST INSPECTOR
FIRE PREVENTION BUREAU

for PHILLIP GARCIA, FIRE CHIEF

JB/mc

Cc: Valerie Jahn-Bull, RWQCB 3737 Main Street, Ste. 500 Riverside, CA 92501-3339
Aaron Baird, Delta 27141 Aliso Creek Road, Suite 270 Aliso Viejo, CA 92656

MAYOR
Miguel A. Pulido
MAYOR PRO TEM
Lisa Bist
COUNCIL MEMBERS
Claudia C. Alvarez
Carlos Bustamante
Alberta D. Christy
Mike Garcia
Jose Solorio



Favor
CITY MANAGER
David N. Ream
CITY ATTORNEY
Joseph W. Fletcher
CLERK OF THE COUNCIL
Patricia E. Healy

JUL 11 2005

CITY OF SANTA ANA
FIRE DEPARTMENT
1439 SO. BROADWAY
SANTA ANA, CALIFORNIA 92707

July 5, 2005

Mr. Darrell Fah
BP West Coast Products LLC
4 Centrepointe Drive
La Palma, CA 90623

Re: Response to June 2, 2005 "Addendum to Work Plan for Confirmation Soil Borings"
from Delta Environmental Consultants, Inc.
ARCO Facility # 206
302 W. First Street
Santa Ana, CA

Dear Mr. Fah,

I have read the "Addendum to Work Plan for Confirmation Soil Borings" prepared by your consultant, Delta Environmental Consultants, Inc., dated June 2, 2005. The Santa Ana Fire Department approves the Addendum.

If you have any questions, please feel free to call me at (714) 647-5761.

Sincerely,

A handwritten signature in cursive ink that appears to read "Jay Bento".

JAY BENTO, UST INSPECTOR
FIRE PREVENTION BUREAU

for PHILLIP GARCIA, FIRE CHIEF

JB: mc

C: Valerie Jahn-Bull, RWQCB 3737 Main Street, Ste. 500 Riverside, CA 92501-3339
Aaron Baird, Delta 27141 Aliso Creek Road, Suite 270 Aliso Viejo, CA 92656

ATTACHMENT B

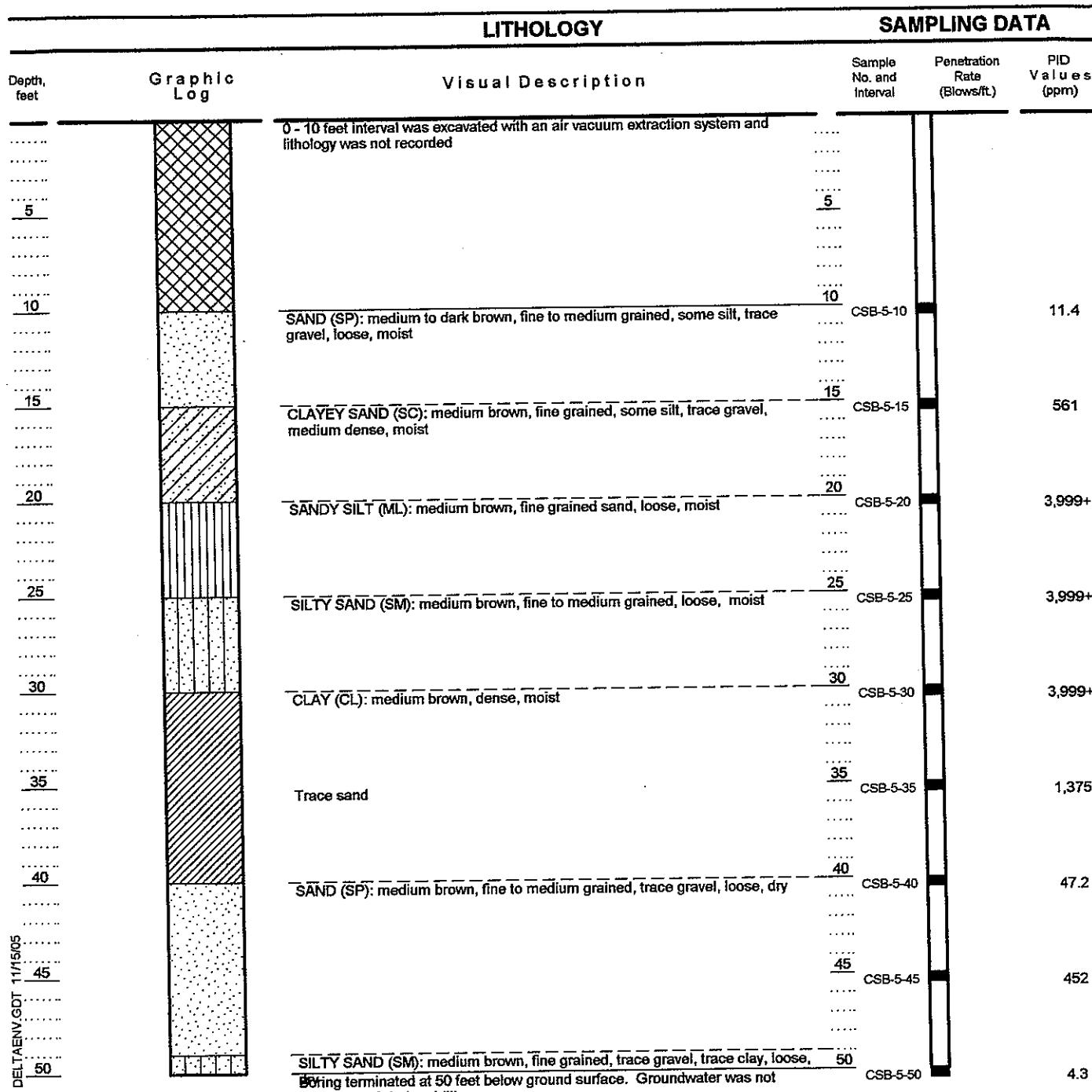
Soil Boring Logs

Page 1 of 1

BORING/WELL NO.
CSB-5

SOIL BORING LOG

PROJECT NO./NAME G0B5M/ARCO Facility No. 206	LOCATION 302 West First Street Santa Ana, California	APPROVED BY Dean A. Rchesin, PG No. 3587	START/FINISH DATE 8/22/05-8/22/05
DRILLING CONTRACTOR/DRILLER Strongarm/Rogelio			
GEOLOGIST/OFFICE Sean Peacher/Orange County	SIZE/TYPE OF BIT 1 1/2"/Soil	SAMPLING METHOD Direct Push	TOTAL DEPTH 50.0'
DRILLING EQUIPMENT/METHOD Geoprobe/Direct Push			

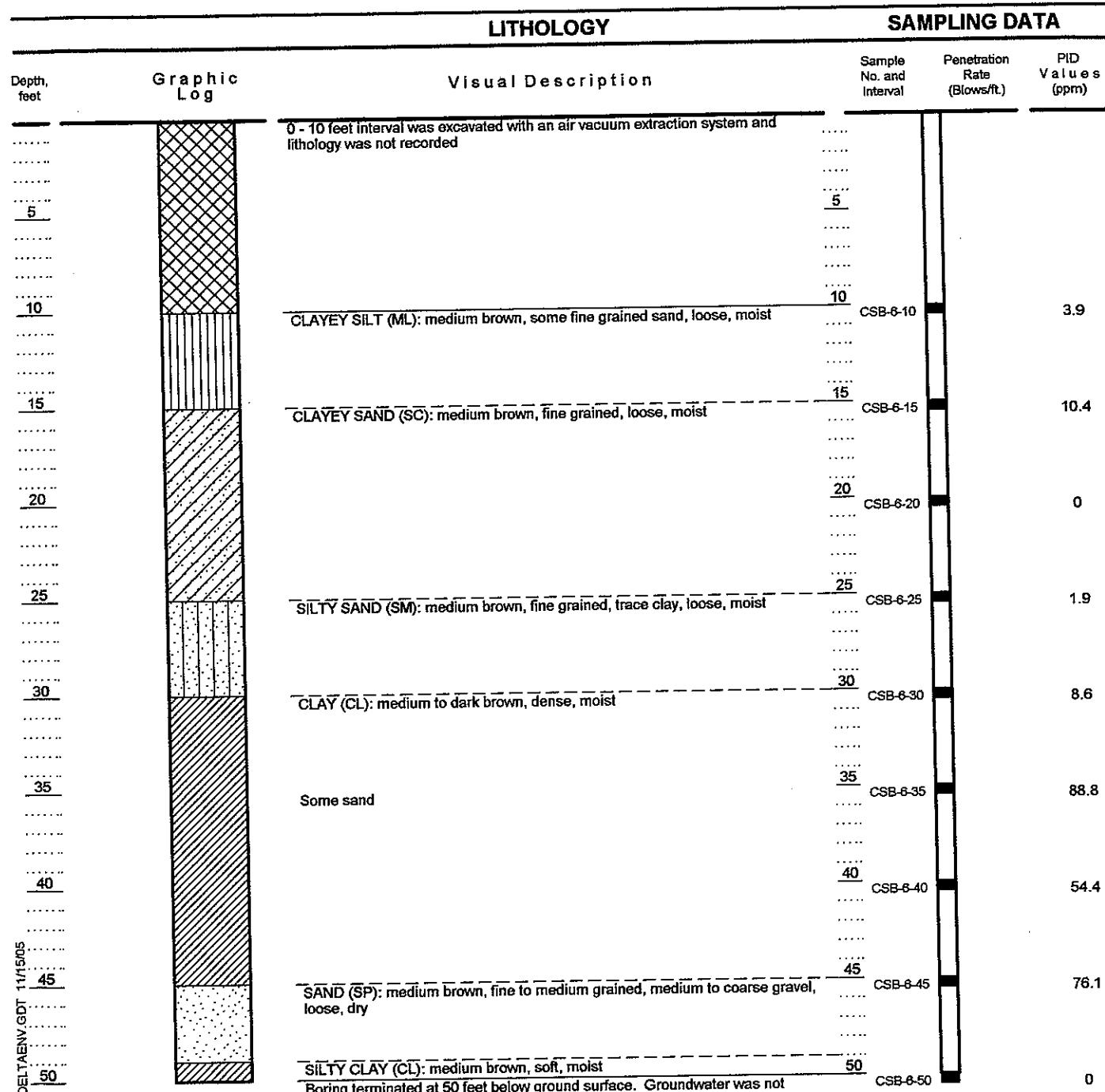




BORING/WELL NO.
CSB-6

SOIL BORING LOG

PROJECT NO./NAME G0B5M/ARCO Facility No. 206	LOCATION 302 West First Street Santa Ana, California	N
DRILLING CONTRACTOR/DRILLER Strongarm/Rogelio	APPROVED BY Dean A. Richeson, PG No. 3587	
GEOLOGIST/OFFICE Sean Peacher/Orange County	SIZE/TYPER OF BIT 1 1/2"/Soil	SAMPLING METHOD Direct Push
DRILLING EQUIPMENT/METHOD Geoprobe/Direct Push	START/FINISH DATE 8/22/05-8/22/05	TOTAL DEPTH 50.0'





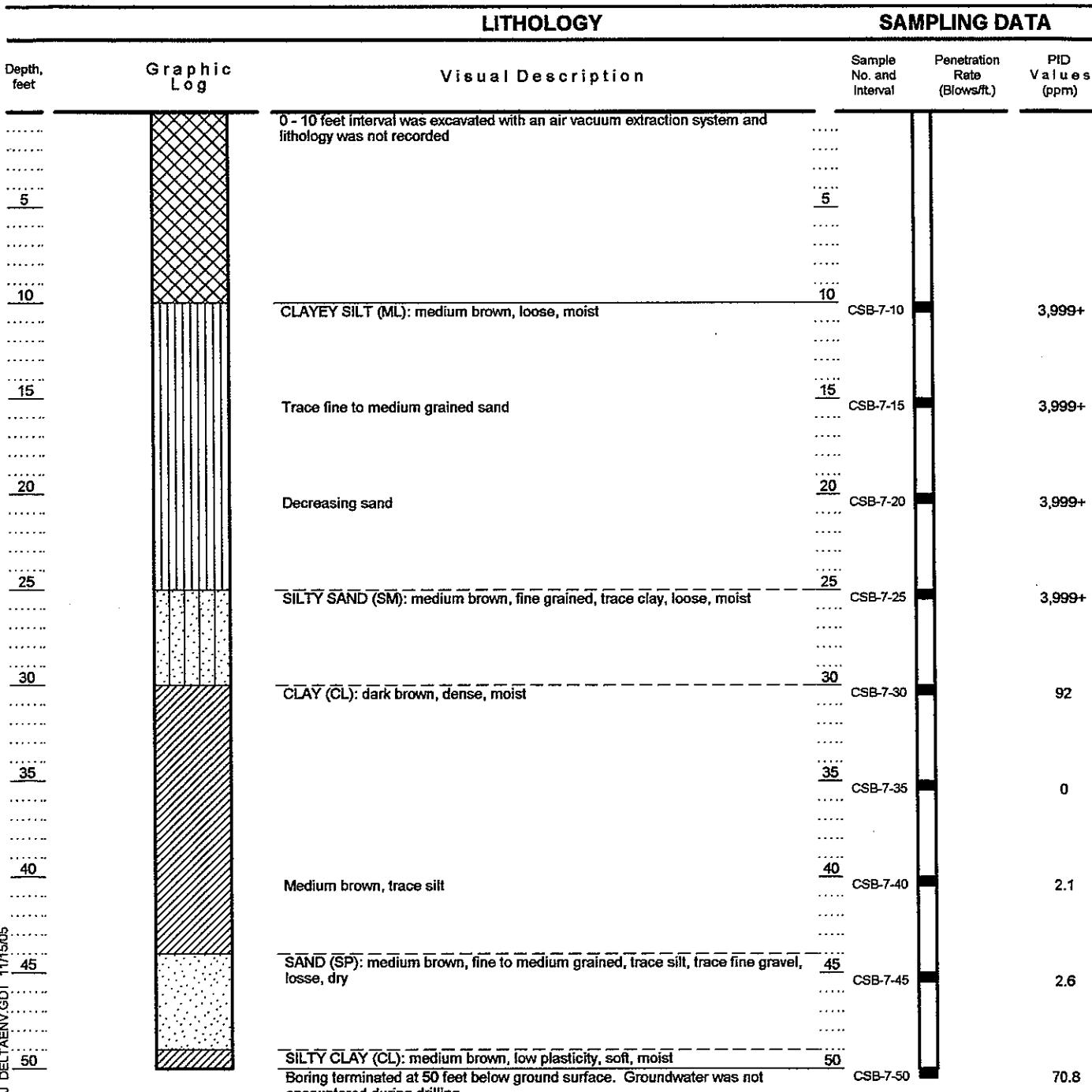
BORING/WELL NO.
CSB-7

SOIL BORING LOG

BORING/WELL LOCATION SKETCH MAP



PROJECT NO./NAME G0B5M/ARCO Facility No. 206	LOCATION 302 West First Street		
DRILLING CONTRACTOR/DRILLER Strongarm/Rogelio	Santa Ana, California		
GEOLOGIST/OFFICE Sean Peacher/Orange County	APPROVED BY Dean A. Richestin, PG No. 3587		
DRILLING EQUIPMENT/METHOD Geoprobe/Direct Push	SIZE/TYPE OF BIT 1 1/2"/Soil	SAMPLING METHOD Direct Push	START/FINISH DATE 8/22/05-8/22/05
			TOTAL DEPTH 50.0'



ATTACHMENT C
Soil Disposal Documentation

TPS Technologies Soil Recycling

Non-Hazardous Soils

Manifest #

ARCO

Date of Shipment:	Responsible for Payment:	Transporter Truck #:	Facility #:	Given by TPS:	Load #
11/11/05	REST	41873	03	25942	1011

Generator's Name and Billing Address: BP WEST COAST PRODUCTS LLC P.O. BOX 80249 RANCHO SANTA MARGARITA, CA 92688	Generator's Phone #:	Generator's US EPA ID No.:
	Person to Contact:	
	FAX#:	Customer Account Number with TPS:

Consultant's Name and Billing Address:	Consultant's Phone #:	
	Person to Contact:	
	FAX#:	Customer Account Number with TPS:

Generation Site (Transport from): (name & address) ARCO #0206 302 W. FIRST STREET SANTA ANA, CA 92701	Site Phone #:	BTEX Levels
	Person to Contact:	TPH Levels
	FAX#:	AVG. Levels

Designated Facility (Transport to): (name & address) TPS TECHNOLOGIES, INC. 12326 HIBISCUS AVENUE ADELANTO, CA 92301	Facility Phone #: 800-862-8001	Facility Permit Numbers
	Person to Contact: DELENE JEFFREY	
	FAX#: 760-246-8004	

Transporter Name and Mailing Address: BELSHIRE ENVIRONMENTAL 25971 TOWNE CENTRE DRIVE LAKE FOREST, CA 92610 BESI# 118502.02	Transporter's Phone #: 949-450-5200	Transporter's US EPA ID No.: CAR0003165175
	Person to Contact: Larry Meothart	Transporter's DOT No.: 450547
	FAX#: 949-450-5210	Customer Account Number with TPS: 1000159

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>	4 DMS		4600	2400	2200
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					110

List any exception to items listed above:

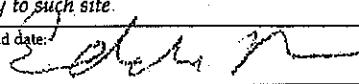
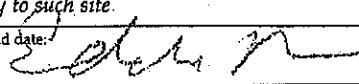
128583

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way

Print or Type Name: Generator Consultant Signature and date: 
Larry Meothart REST on behalf of ARCO

Month	Day	Year
11	15	05

Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

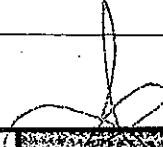
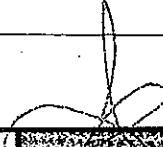
Print or Type Name: **Ed Ramos (R18208ML)** Signature and date: 


Month	Day	Year
11	15	05

Discrepancies:

FAC# 2010
ID# 11943

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: **D. JEFFREY / J. PROVANSOL** Signature and date: 


Month	Day	Year
11	16	05

Recycling Facility

Transporter

ATTACHMENT D

Laboratory Report and Chain-of-Custody Documentation



Del Mar Analytical

17461 Denian Ave., Suite 100, Irvine, CA 92614 (949) 261-1022 FAX (949) 260-3297
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LABORATORY REPORT

Prepared For: Delta Env. Consultants - Aliso Viejo
27141 Aliso Creek Road, Suite 270
Aliso Viejo, CA 92656

Attention: Aaron Baird

Project: ARCO 0206, Santa Ana

Sampled: 10/13/05
Received: 10/13/05
Issued: 10/29/05 19:07

NELAP #01108CA California ELAP#1197 CSDLAC #10117

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the BPGCLN Technical Specifications, applicable federal, state, local regulations and certification requirements as well as the methodologies as described in laboratory SOPs reviewed by the BPGCLN. This entire report was reviewed and approved for release.

CASE NARRATIVE

- SAMPLE RECEIPT: Samples were received intact, at 2°C, on ice and with chain of custody documentation.
- HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the Del Mar Analytical Sample Acceptance Policy unless otherwise noted in the report.
- PRESERVATION: Samples requiring preservation were verified prior to sample analysis.
- QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.
Due to laboratory oversight, a site specific MS/MSD for EPA Method 5035B/CADHS Mod. 8015 was not performed on sample IOJ0882-25 (CSB-5-40); results are acceptable based on acceptable recoveries in the LCS/LCSD.
Due to the Ethanol result being lower than the reporting limit, the recovery in the MSD for EPA 5035/8260B QC batch 5J15019 does not appear in the report; this also affected the MS/MSD RPD for Ethanol. Manual calculation of the raw data yielded the following Ethanol results: MSD = 154%, and RPD = 4.
- COMMENTS: Sample IOJ0882-24 (CSB-5-35) was analyzed by EPA Method 5035/CADHS Mod. 8015 directly from an EnCore sampler yielding a result for Volatile Fuel Hydrocarbons which exceeded the calibration range and was EY flagged. A methanol extract was performed on another EnCore yielding a result of ND (Not Detected) at or above the MDL.
- SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

LABORATORY ID

IOJ0882-01

CLIENT ID

CSB-7-10

MATRIX

Soil



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Project ID: ARCO 0206, Santa Ana
Report Number: IOJ0882

Sampled: 10/13/05
Received: 10/13/05

LABORATORY ID	CLIENT ID	MATRIX
IOJ0882-02	CSB-7-15	Soil
IOJ0882-03	CSB-7-20	Soil
IOJ0882-04	CSB-7-25	Soil
IOJ0882-05	CSB-7-30	Soil
IOJ0882-06	CSB-7-35	Soil
IOJ0882-07	CSB-7-40	Soil
IOJ0882-08	CSB-7-45	Soil
IOJ0882-09	CSB-7-50	Soil
IOJ0882-10	CSB-6-10	Soil
IOJ0882-11	CSB-6-15	Soil
IOJ0882-12	CSB-6-20	Soil
IOJ0882-13	CSB-6-25	Soil
IOJ0882-14	CSB-6-30	Soil
IOJ0882-15	CSB-6-35	Soil
IOJ0882-16	CSB-6-40	Soil
IOJ0882-17	CSB-6-45	Soil
IOJ0882-18	CSB-6-50	Soil
IOJ0882-19	CSB-5-10	Soil
IOJ0882-20	CSB-5-15	Soil
IOJ0882-21	CSB-5-20	Soil
IOJ0882-22	CSB-5-25	Soil
IOJ0882-23	CSB-5-30	Soil
IOJ0882-24	CSB-5-35	Soil
IOJ0882-25	CSB-5-40	Soil
IOJ0882-26	CSB-5-45	Soil
IOJ0882-27	CSB-5-50	Soil

Reviewed By:

Del Mar Analytical, Irvine
Pat Abe
Project Manager



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VOLATILE FUEL HYDROCARBONS (EPA 5035B/CADHS Mod. 8015)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOJ0882-01 (CSB-7-10 - Soil)								
Reporting Units: mg/kg								
Volatile Fuel Hydrocarbons (C6-C12) <i>Surrogate: 4-BFB (FID) (70-135%)</i>	EPA 8015B	5J15021	0.40	ND 98 %	0.973	10/15/2005	10/15/2005	
Sample ID: IOJ0882-02 (CSB-7-15 - Soil)								
Reporting Units: mg/kg								
Volatile Fuel Hydrocarbons (C6-C12) <i>Surrogate: 4-BFB (FID) (70-135%)</i>	EPA 8015B	5J15021	0.34	ND 108 %	0.846	10/15/2005	10/15/2005	
Sample ID: IOJ0882-03 (CSB-7-20 - Soil)								
Reporting Units: mg/kg								
Volatile Fuel Hydrocarbons (C6-C12) <i>Surrogate: 4-BFB (FID) (70-135%)</i>	EPA 8015B	5J15021	0.32	ND 110 %	0.79	10/15/2005	10/15/2005	
Sample ID: IOJ0882-04 (CSB-7-25 - Soil)								
Reporting Units: mg/kg								
Volatile Fuel Hydrocarbons (C6-C12) <i>Surrogate: 4-BFB (FID) (70-135%)</i>	EPA 8015B	5J17059	200	1600 356 %	475	10/17/2005	10/18/2005	AX
Sample ID: IOJ0882-05 (CSB-7-30 - Soil)								
Reporting Units: mg/kg								
Volatile Fuel Hydrocarbons (C6-C12) <i>Surrogate: 4-BFB (FID) (70-135%)</i>	EPA 8015B	5J14051	0.33	1.0 109 %	0.835	10/14/2005	10/14/2005	
Sample ID: IOJ0882-06 (CSB-7-35 - Soil)								
Reporting Units: mg/kg								
Volatile Fuel Hydrocarbons (C6-C12) <i>Surrogate: 4-BFB (FID) (70-135%)</i>	EPA 8015B	5J14051	0.40	ND 113 %	0.988	10/14/2005	10/15/2005	
Sample ID: IOJ0882-07 (CSB-7-40 - Soil)								
Reporting Units: mg/kg								
Volatile Fuel Hydrocarbons (C6-C12) <i>Surrogate: 4-BFB (FID) (70-135%)</i>	EPA 8015B	5J14051	0.40	ND 111 %	0.988	10/14/2005	10/15/2005	
Sample ID: IOJ0882-08 (CSB-7-45 - Soil)								
Reporting Units: mg/kg								
Volatile Fuel Hydrocarbons (C6-C12) <i>Surrogate: 4-BFB (FID) (70-135%)</i>	EPA 8015B	5J14051	0.45	ND 100 %	1.13	10/14/2005	10/14/2005	

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VOLATILE FUEL HYDROCARBONS (EPA 5035B/CADHS Mod. 8015)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOJ0882-09 (CSB-7-50 - Soil)								
Reporting Units: mg/kg								
Volatile Fuel Hydrocarbons (C6-C12) <i>Surrogate: 4-BFB (FID) (70-135%)</i>	EPA 8015B	5J14051	0.40	ND 97 %	0.951	10/14/2005	10/14/2005	
Sample ID: IOJ0882-10 (CSB-6-10 - Soil)								
Reporting Units: mg/kg								
Volatile Fuel Hydrocarbons (C6-C12) <i>Surrogate: 4-BFB (FID) (70-135%)</i>	EPA 8015B	5J20039	0.40	ND 96 %	0.921	10/20/2005	10/20/2005	
Sample ID: IOJ0882-11 (CSB-6-15 - Soil)								
Reporting Units: mg/kg								
Volatile Fuel Hydrocarbons (C6-C12) <i>Surrogate: 4-BFB (FID) (70-135%)</i>	EPA 8015B	5J19043	0.40	ND 128 %	1.08	10/19/2005	10/19/2005	
Sample ID: IOJ0882-12 (CSB-6-20 - Soil)								
Reporting Units: mg/kg								
Volatile Fuel Hydrocarbons (C6-C12) <i>Surrogate: 4-BFB (FID) (70-135%)</i>	EPA 8015B	5J19043	0.40	ND 120 %	1.07	10/19/2005	10/19/2005	
Sample ID: IOJ0882-13 (CSB-6-25 - Soil)								
Reporting Units: mg/kg								
Volatile Fuel Hydrocarbons (C6-C12) <i>Surrogate: 4-BFB (FID) (70-135%)</i>	EPA 8015B	5J19043	0.40	ND 127 %	0.958	10/19/2005	10/19/2005	
Sample ID: IOJ0882-14 (CSB-6-30 - Soil)								
Reporting Units: mg/kg								
Volatile Fuel Hydrocarbons (C6-C12) <i>Surrogate: 4-BFB (FID) (70-135%)</i>	EPA 8015B	5J20039	0.33	ND 110 %	0.831	10/20/2005	10/20/2005	
Sample ID: IOJ0882-15 (CSB-6-35 - Soil)								
Reporting Units: mg/kg								
Volatile Fuel Hydrocarbons (C6-C12) <i>Surrogate: 4-BFB (FID) (70-135%)</i>	EPA 8015B	5J14051	0.32	ND 20 %	0.806	10/14/2005	10/15/2005	LG,AY
Sample ID: IOJ0882-16 (CSB-6-40 - Soil)								
Reporting Units: mg/kg								
Volatile Fuel Hydrocarbons (C6-C12) <i>Surrogate: 4-BFB (FID) (70-135%)</i>	EPA 8015B	5J19043	0.40	ND 106 %	0.967	10/19/2005	10/19/2005	

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VOLATILE FUEL HYDROCARBONS (EPA 5035B/CADHS Mod. 8015)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOJ0882-17 (CSB-6-45 - Soil)								
Reporting Units: mg/kg								
Volatile Fuel Hydrocarbons (C6-C12)	EPA 8015B	SJ15021	0.33	ND	0.833	10/15/2005	10/15/2005	
<i>Surrogate: 4-BFB (FID) (70-135%)</i>								
Sample ID: IOJ0882-18 (CSB-6-50 - Soil)								
Reporting Units: mg/kg								
Volatile Fuel Hydrocarbons (C6-C12)	EPA 8015B	SJ15021	0.35	ND	0.887	10/15/2005	10/15/2005	
<i>Surrogate: 4-BFB (FID) (70-135%)</i>								
Sample ID: IOJ0882-19 (CSB-5-10 - Soil)								
Reporting Units: mg/kg								
Volatile Fuel Hydrocarbons (C6-C12)	EPA 8015B	SJ15021	0.36	ND	0.907	10/15/2005	10/15/2005	
<i>Surrogate: 4-BFB (FID) (70-135%)</i>								
Sample ID: IOJ0882-20 (CSB-5-15 - Soil)								
Reporting Units: mg/kg								
Volatile Fuel Hydrocarbons (C6-C12)	EPA 8015B	SJ20110	170	470	419	10/20/2005	10/20/2005	
<i>Surrogate: 4-BFB (FID) (70-135%)</i>								
Sample ID: IOJ0882-21 (CSB-5-20 - Soil)								
Reporting Units: mg/kg								
Volatile Fuel Hydrocarbons (C6-C12)	EPA 8015B	SJ17059	170	710	424	10/17/2005	10/20/2005	
<i>Surrogate: 4-BFB (FID) (70-135%)</i>								
Sample ID: IOJ0882-22 (CSB-5-25 - Soil)								
Reporting Units: mg/kg								
Volatile Fuel Hydrocarbons (C6-C12)	EPA 8015B	SJ20110	1800	15000	4520	10/20/2005	10/20/2005	
<i>Surrogate: 4-BFB (FID) (70-135%)</i>								
Sample ID: IOJ0882-23 (CSB-5-30 - Soil)								
Reporting Units: mg/kg								
Volatile Fuel Hydrocarbons (C6-C12)	EPA 8015B	SJ20110	850	4000	2130	10/20/2005	10/20/2005	
<i>Surrogate: 4-BFB (FID) (70-135%)</i>								
Sample ID: IOJ0882-24 (CSB-5-35 - Soil)								
Reporting Units: mg/kg								
Volatile Fuel Hydrocarbons (C6-C12)	EPA 8015B	SJ19043	0.35	4.9	0.867	10/19/2005	10/19/2005	EY
<i>Surrogate: 4-BFB (FID) (70-135%)</i>								
Sample ID: IOJ0882-24RE1 (CSB-5-35 - Soil)								
Reporting Units: mg/kg								
Volatile Fuel Hydrocarbons (C6-C12)	EPA 8015B	SJ20110	16	ND	41.2	10/19/2005	10/20/2005	GS
<i>Surrogate: 4-BFB (FID) (70-135%)</i>								

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VOLATILE FUEL HYDROCARBONS (EPA 5035B/CADHS Mod. 8015)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOJ0882-25 (CSB-5-40 - Soil)								
Reporting Units: mg/kg								
Volatile Fuel Hydrocarbons (C6-C12)	EPA 8015B	5J19043	0.40	ND	1.01	10/19/2005	10/19/2005	
<i>Surrogate: 4-BFB (FID) (70-135%)</i>								
Sample ID: IOJ0882-26 (CSB-5-45 - Soil)								
Reporting Units: mg/kg								
Volatile Fuel Hydrocarbons (C6-C12)	EPA 8015B	5J20039	0.40	ND	0.984	10/20/2005	10/20/2005	
<i>Surrogate: 4-BFB (FID) (70-135%)</i>								
Sample ID: IOJ0882-27 (CSB-5-50 - Soil)								
Reporting Units: mg/kg								
Volatile Fuel Hydrocarbons (C6-C12)	EPA 8015B	5J15021	0.36	ND	0.896	10/15/2005	10/15/2005	
<i>Surrogate: 4-BFB (FID) (70-135%)</i>								

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BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
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Sample ID: IOJ0882-01 (CSB-7-10 - Soil)

Reporting Units: mg/kg

Benzene	EPA 8260B	5J17006	0.0018	ND	0.888	10/17/2005	10/17/2005
Ethylbenzene	EPA 8260B	5J17006	0.0018	ND	0.888	10/17/2005	10/17/2005
Toluene	EPA 8260B	5J17006	0.0018	ND	0.888	10/17/2005	10/17/2005
o-Xylene	EPA 8260B	5J17006	0.0018	ND	0.888	10/17/2005	10/17/2005
m,p-Xylenes	EPA 8260B	5J17006	0.0018	ND	0.888	10/17/2005	10/17/2005
Xylenes, Total	EPA 8260B	5J17006	0.0036	ND	0.888	10/17/2005	10/17/2005
Di-isopropyl Ether (DIPE)	EPA 8260B	5J17006	0.0044	ND	0.888	10/17/2005	10/17/2005
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	5J17006	0.0044	ND	0.888	10/17/2005	10/17/2005
tert-Amyl Methyl Ether (TAME)	EPA 8260B	5J17006	0.0044	ND	0.888	10/17/2005	10/17/2005
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	5J17006	0.0044	ND	0.888	10/17/2005	10/17/2005
tert-Butanol (TBA)	EPA 8260B	5J17006	0.044	ND	0.888	10/17/2005	10/17/2005
Ethanol	EPA 8260B	5J17006	0.27	ND	0.888	10/17/2005	10/17/2005
<i>Surrogate: Dibromofluoromethane (80-125%)</i>				109 %			
<i>Surrogate: Toluene-d8 (80-120%)</i>				102 %			
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>				97 %			

Sample ID: IOJ0882-02 (CSB-7-15 - Soil)

Reporting Units: mg/kg

Benzene	EPA 8260B	5J17006	0.0020	ND	1.03	10/17/2005	10/17/2005
Ethylbenzene	EPA 8260B	5J17006	0.0020	ND	1.03	10/17/2005	10/17/2005
Toluene	EPA 8260B	5J17006	0.0020	ND	1.03	10/17/2005	10/17/2005
o-Xylene	EPA 8260B	5J17006	0.0020	ND	1.03	10/17/2005	10/17/2005
m,p-Xylenes	EPA 8260B	5J17006	0.0020	ND	1.03	10/17/2005	10/17/2005
Xylenes, Total	EPA 8260B	5J17006	0.0040	ND	1.03	10/17/2005	10/17/2005
Di-isopropyl Ether (DIPE)	EPA 8260B	5J17006	0.0050	ND	1.03	10/17/2005	10/17/2005
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	5J17006	0.0050	ND	1.03	10/17/2005	10/17/2005
tert-Amyl Methyl Ether (TAME)	EPA 8260B	5J17006	0.0050	ND	1.03	10/17/2005	10/17/2005
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	5J17006	0.0050	ND	1.03	10/17/2005	10/17/2005
tert-Butanol (TBA)	EPA 8260B	5J17006	0.050	ND	1.03	10/17/2005	10/17/2005
Ethanol	EPA 8260B	5J17006	0.30	ND	1.03	10/17/2005	10/17/2005
<i>Surrogate: Dibromofluoromethane (80-125%)</i>				111 %			
<i>Surrogate: Toluene-d8 (80-120%)</i>				101 %			
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>				95 %			

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BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOJ0882-03 (CSB-7-20 - Soil)								
Reporting Units: mg/kg								
Benzene	EPA 8260B	5J17006	0.0018	ND	0.909	10/17/2005	10/17/2005	
Ethylbenzene	EPA 8260B	5J17006	0.0018	ND	0.909	10/17/2005	10/17/2005	
Toluene	EPA 8260B	5J17006	0.0018	ND	0.909	10/17/2005	10/17/2005	
o-Xylene	EPA 8260B	5J17006	0.0018	ND	0.909	10/17/2005	10/17/2005	
m,p-Xylenes	EPA 8260B	5J17006	0.0018	ND	0.909	10/17/2005	10/17/2005	
Xylenes, Total	EPA 8260B	5J17006	0.0036	ND	0.909	10/17/2005	10/17/2005	
Di-isopropyl Ether (DIPE)	EPA 8260B	5J17006	0.0045	ND	0.909	10/17/2005	10/17/2005	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	5J17006	0.0045	ND	0.909	10/17/2005	10/17/2005	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	5J17006	0.0045	ND	0.909	10/17/2005	10/17/2005	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	5J17006	0.0045	ND	0.909	10/17/2005	10/17/2005	
tert-Butanol (TBA)	EPA 8260B	5J17006	0.045	ND	0.909	10/17/2005	10/17/2005	
Ethanol	EPA 8260B	5J17006	0.27	ND	0.909	10/17/2005	10/17/2005	
<i>Surrogate: Dibromofluoromethane (80-125%)</i>								
106 %								
<i>Surrogate: Toluene-d8 (80-120%)</i>								
101 %								
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>								
96 %								
Sample ID: IOJ0882-04 (CSB-7-25 - Soil)								
Reporting Units: mg/kg								
Benzene	EPA 8260B	5J15019	0.90	0.97	896	10/15/2005	10/17/2005	
Ethylbenzene	EPA 8260B	5J15019	0.90	46	896	10/15/2005	10/17/2005	
Toluene	EPA 8260B	5J15019	0.90	32	896	10/15/2005	10/17/2005	
o-Xylene	EPA 8260B	5J15019	0.90	83	896	10/15/2005	10/17/2005	
m,p-Xylenes	EPA 8260B	5J15019	0.90	180	896	10/15/2005	10/17/2005	
Xylenes, Total	EPA 8260B	5J15019	1.8	270	896	10/15/2005	10/17/2005	
Di-isopropyl Ether (DIPE)	EPA 8260B	5J15019	2.2	ND	896	10/15/2005	10/17/2005	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	5J15019	2.2	ND	896	10/15/2005	10/17/2005	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	5J15019	2.2	ND	896	10/15/2005	10/17/2005	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	5J15019	2.2	ND	896	10/15/2005	10/17/2005	
tert-Butanol (TBA)	EPA 8260B	5J15019	45	ND	896	10/15/2005	10/17/2005	
Ethanol	EPA 8260B	5J15019	130	ND	896	10/15/2005	10/17/2005	
<i>Surrogate: Dibromofluoromethane (55-140%)</i>								
86 %								
<i>Surrogate: Toluene-d8 (60-140%)</i>								
99 %								
<i>Surrogate: 4-Bromofluorobenzene (65-140%)</i>								
115 %								
AX								
AX								
AX								

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Delta Env. Consultants - Aliso Viejo
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Project ID: ARCO 0206, Santa Ana

Report Number: IOJ0882

Sampled: 10/13/05

Received: 10/13/05

BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOJ0882-05 (CSB-7-30 - Soil)								
Reporting Units: mg/kg								
Benzene	EPA 8260B	5J17006	0.0018	0.10	0.899	10/17/2005	10/17/2005	
Ethylbenzene	EPA 8260B	5J17006	0.0018	0.064	0.899	10/17/2005	10/17/2005	
Toluene	EPA 8260B	5J17006	0.0018	0.15	0.899	10/17/2005	10/17/2005	
<i>o</i> -Xylene	EPA 8260B	5J17006	0.0018	0.082	0.899	10/17/2005	10/17/2005	
<i>m,p</i> -Xylenes	EPA 8260B	5J17006	0.0018	0.10	0.899	10/17/2005	10/17/2005	
Xylenes, Total	EPA 8260B	5J17006	0.0036	0.18	0.899	10/17/2005	10/17/2005	
Di-isopropyl Ether (DIPE)	EPA 8260B	5J17006	0.0045	ND	0.899	10/17/2005	10/17/2005	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	5J17006	0.0045	ND	0.899	10/17/2005	10/17/2005	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	5J17006	0.0045	ND	0.899	10/17/2005	10/17/2005	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	5J17006	0.0045	0.019	0.899	10/17/2005	10/17/2005	
tert-Butanol (TBA)	EPA 8260B	5J17006	0.045	ND	0.899	10/17/2005	10/17/2005	
Ethanol	EPA 8260B	5J17006	0.27	ND	0.899	10/17/2005	10/17/2005	
<i>Surrogate: Dibromofluoromethane (80-125%)</i>				110 %				
<i>Surrogate: Toluene-d8 (80-120%)</i>				102 %				
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>				99 %				
Sample ID: IOJ0882-06 (CSB-7-35 - Soil)								
Reporting Units: mg/kg								
Benzene	EPA 8260B	5J17006	0.0020	ND	1.03	10/17/2005	10/17/2005	
Ethylbenzene	EPA 8260B	5J17006	0.0020	ND	1.03	10/17/2005	10/17/2005	
Toluene	EPA 8260B	5J17006	0.0020	ND	1.03	10/17/2005	10/17/2005	
<i>o</i> -Xylene	EPA 8260B	5J17006	0.0020	ND	1.03	10/17/2005	10/17/2005	
<i>m,p</i> -Xylenes	EPA 8260B	5J17006	0.0020	ND	1.03	10/17/2005	10/17/2005	
Xylenes, Total	EPA 8260B	5J17006	0.0040	ND	1.03	10/17/2005	10/17/2005	
Di-isopropyl Ether (DIPE)	EPA 8260B	5J17006	0.0050	ND	1.03	10/17/2005	10/17/2005	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	5J17006	0.0050	ND	1.03	10/17/2005	10/17/2005	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	5J17006	0.0050	ND	1.03	10/17/2005	10/17/2005	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	5J17006	0.0050	0.061	1.03	10/17/2005	10/17/2005	
tert-Butanol (TBA)	EPA 8260B	5J17006	0.050	ND	1.03	10/17/2005	10/17/2005	
Ethanol	EPA 8260B	5J17006	0.30	ND	1.03	10/17/2005	10/17/2005	
<i>Surrogate: Dibromofluoromethane (80-125%)</i>				109 %				
<i>Surrogate: Toluene-d8 (80-120%)</i>				102 %				
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>				97 %				

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Project ID: ARCO 0206, Santa Ana

Report Number: IOJ0882

Sampled: 10/13/05

Received: 10/13/05

BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
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Sample ID: IOJ0882-07 (CSB-7-40 - Soil)

Reporting Units: mg/kg

Benzene	EPA 8260B	5J17006	0.0020	ND	0.969	10/17/2005	10/17/2005
Ethylbenzene	EPA 8260B	5J17006	0.0020	ND	0.969	10/17/2005	10/17/2005
Toluene	EPA 8260B	5J17006	0.0020	ND	0.969	10/17/2005	10/17/2005
o-Xylene	EPA 8260B	5J17006	0.0020	ND	0.969	10/17/2005	10/17/2005
m,p-Xylenes	EPA 8260B	5J17006	0.0020	ND	0.969	10/17/2005	10/17/2005
Xylenes, Total	EPA 8260B	5J17006	0.0040	ND	0.969	10/17/2005	10/17/2005
Di-isopropyl Ether (DIPE)	EPA 8260B	5J17006	0.0050	ND	0.969	10/17/2005	10/17/2005
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	5J17006	0.0050	ND	0.969	10/17/2005	10/17/2005
tert-Amyl Methyl Ether (TAME)	EPA 8260B	5J17006	0.0050	ND	0.969	10/17/2005	10/17/2005
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	5J17006	0.0050	0.045	0.969	10/17/2005	10/17/2005
tert-Butanol (TBA)	EPA 8260B	5J17006	0.050	0.14	0.969	10/17/2005	10/17/2005
Ethanol	EPA 8260B	5J17006	0.30	ND	0.969	10/17/2005	10/17/2005

Surrogate: Dibromofluoromethane (80-125%)

110 %

Surrogate: Toluene-d8 (80-120%)

102 %

Surrogate: 4-Bromofluorobenzene (80-120%)

97 %

Sample ID: IOJ0882-08 (CSB-7-45 - Soil)

Reporting Units: mg/kg

Benzene	EPA 8260B	5J17006	0.0025	ND	1.24	10/17/2005	10/17/2005
Ethylbenzene	EPA 8260B	5J17006	0.0025	ND	1.24	10/17/2005	10/17/2005
Toluene	EPA 8260B	5J17006	0.0025	ND	1.24	10/17/2005	10/17/2005
o-Xylene	EPA 8260B	5J17006	0.0025	ND	1.24	10/17/2005	10/17/2005
m,p-Xylenes	EPA 8260B	5J17006	0.0025	ND	1.24	10/17/2005	10/17/2005
Xylenes, Total	EPA 8260B	5J17006	0.0050	ND	1.24	10/17/2005	10/17/2005
Di-isopropyl Ether (DIPE)	EPA 8260B	5J17006	0.0062	ND	1.24	10/17/2005	10/17/2005
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	5J17006	0.0062	ND	1.24	10/17/2005	10/17/2005
tert-Amyl Methyl Ether (TAME)	EPA 8260B	5J17006	0.0062	ND	1.24	10/17/2005	10/17/2005
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	5J17006	0.0062	ND	1.24	10/17/2005	10/17/2005
tert-Butanol (TBA)	EPA 8260B	5J17006	0.062	ND	1.24	10/17/2005	10/17/2005
Ethanol	EPA 8260B	5J17006	0.37	ND	1.24	10/17/2005	10/17/2005

Surrogate: Dibromofluoromethane (80-125%)

110 %

Surrogate: Toluene-d8 (80-120%)

100 %

Surrogate: 4-Bromofluorobenzene (80-120%)

95 %

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Project ID: ARCO 0206, Santa Ana

Report Number: IOJ0882

Sampled: 10/13/05

Received: 10/13/05

BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
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Sample ID: IOJ0882-09 (CSB-7-50 - Soil)

Reporting Units: mg/kg

Benzene	EPA 8260B	SJ17006	0.0017	ND	0.861	10/17/2005	10/17/2005
Ethylbenzene	EPA 8260B	SJ17006	0.0017	ND	0.861	10/17/2005	10/17/2005
Toluene	EPA 8260B	SJ17006	0.0017	ND	0.861	10/17/2005	10/17/2005
o-Xylene	EPA 8260B	SJ17006	0.0017	ND	0.861	10/17/2005	10/17/2005
m,p-Xylenes	EPA 8260B	SJ17006	0.0017	ND	0.861	10/17/2005	10/17/2005
Xylenes, Total	EPA 8260B	SJ17006	0.0034	ND	0.861	10/17/2005	10/17/2005
Di-isopropyl Ether (DIPE)	EPA 8260B	SJ17006	0.0043	ND	0.861	10/17/2005	10/17/2005
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	SJ17006	0.0043	ND	0.861	10/17/2005	10/17/2005
tert-Amyl Methyl Ether (TAME)	EPA 8260B	SJ17006	0.0043	ND	0.861	10/17/2005	10/17/2005
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	SJ17006	0.0043	ND	0.861	10/17/2005	10/17/2005
tert-Butanol (TBA)	EPA 8260B	SJ17006	0.043	ND	0.861	10/17/2005	10/17/2005
Ethanol	EPA 8260B	SJ17006	0.26	ND	0.861	10/17/2005	10/17/2005
<i>Surrogate: Dibromofluoromethane (80-125%)</i>				110 %			
<i>Surrogate: Toluene-d8 (80-120%)</i>				102 %			
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>				94 %			

Sample ID: IOJ0882-10 (CSB-6-10 - Soil)

Reporting Units: mg/kg

Benzene	EPA 8260B	SJ17006	0.0016	ND	0.824	10/17/2005	10/17/2005
Ethylbenzene	EPA 8260B	SJ17006	0.0016	ND	0.824	10/17/2005	10/17/2005
Toluene	EPA 8260B	SJ17006	0.0016	ND	0.824	10/17/2005	10/17/2005
o-Xylene	EPA 8260B	SJ17006	0.0016	ND	0.824	10/17/2005	10/17/2005
m,p-Xylenes	EPA 8260B	SJ17006	0.0016	ND	0.824	10/17/2005	10/17/2005
Xylenes, Total	EPA 8260B	SJ17006	0.0033	ND	0.824	10/17/2005	10/17/2005
Di-isopropyl Ether (DIPE)	EPA 8260B	SJ17006	0.0041	ND	0.824	10/17/2005	10/17/2005
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	SJ17006	0.0041	ND	0.824	10/17/2005	10/17/2005
tert-Amyl Methyl Ether (TAME)	EPA 8260B	SJ17006	0.0041	ND	0.824	10/17/2005	10/17/2005
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	SJ17006	0.0041	ND	0.824	10/17/2005	10/17/2005
tert-Butanol (TBA)	EPA 8260B	SJ17006	0.041	ND	0.824	10/17/2005	10/17/2005
Ethanol	EPA 8260B	SJ17006	0.25	ND	0.824	10/17/2005	10/17/2005
<i>Surrogate: Dibromofluoromethane (80-125%)</i>				107 %			
<i>Surrogate: Toluene-d8 (80-120%)</i>				102 %			
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>				99 %			

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 Attention: Aaron Baird

Project ID: ARCO 0206, Santa Ana

Report Number: IOJ0882

Sampled: 10/13/05

Received: 10/13/05

BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOJ0882-11 (CSB-6-15 - Soil)								
Reporting Units: mg/kg								
Benzene	EPA 8260B	5J18018	0.0020	ND	0.917	10/18/2005	10/19/2005	
Ethylbenzene	EPA 8260B	5J18018	0.0020	ND	0.917	10/18/2005	10/19/2005	
Toluene	EPA 8260B	5J18018	0.0020	ND	0.917	10/18/2005	10/19/2005	
o-Xylene	EPA 8260B	5J18018	0.0020	ND	0.917	10/18/2005	10/19/2005	
m,p-Xylenes	EPA 8260B	5J18018	0.0020	ND	0.917	10/18/2005	10/19/2005	
Xylenes, Total	EPA 8260B	5J18018	0.0040	ND	0.917	10/18/2005	10/19/2005	
Di-isopropyl Ether (DIPE)	EPA 8260B	5J18018	0.0050	ND	0.917	10/18/2005	10/19/2005	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	5J18018	0.0050	ND	0.917	10/18/2005	10/19/2005	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	5J18018	0.0050	ND	0.917	10/18/2005	10/19/2005	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	5J18018	0.0050	ND	0.917	10/18/2005	10/19/2005	
tert-Butanol (TBA)	EPA 8260B	5J18018	0.050	ND	0.917	10/18/2005	10/19/2005	
Ethanol	EPA 8260B	5J18018	0.30	ND	0.917	10/18/2005	10/19/2005	IO
<i>Surrogate: Dibromofluoromethane (80-125%)</i>								
<i>Surrogate: Toluene-d8 (80-120%)</i>								
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>								
Sample ID: IOJ0882-12 (CSB-6-20 - Soil)								
Reporting Units: mg/kg								
Benzene	EPA 8260B	5J17019	0.0018	ND	0.899	10/17/2005	10/17/2005	
Ethylbenzene	EPA 8260B	5J17019	0.0018	ND	0.899	10/17/2005	10/17/2005	
Toluene	EPA 8260B	5J17019	0.0018	ND	0.899	10/17/2005	10/17/2005	
o-Xylene	EPA 8260B	5J17019	0.0018	ND	0.899	10/17/2005	10/17/2005	
m,p-Xylenes	EPA 8260B	5J17019	0.0018	ND	0.899	10/17/2005	10/17/2005	
Xylenes, Total	EPA 8260B	5J17019	0.0036	ND	0.899	10/17/2005	10/17/2005	
Di-isopropyl Ether (DIPE)	EPA 8260B	5J17019	0.0045	ND	0.899	10/17/2005	10/17/2005	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	5J17019	0.0045	ND	0.899	10/17/2005	10/17/2005	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	5J17019	0.0045	ND	0.899	10/17/2005	10/17/2005	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	5J17019	0.0045	ND	0.899	10/17/2005	10/17/2005	
tert-Butanol (TBA)	EPA 8260B	5J17019	0.045	ND	0.899	10/17/2005	10/17/2005	
Ethanol	EPA 8260B	5J17019	0.27	ND	0.899	10/17/2005	10/17/2005	
<i>Surrogate: Dibromofluoromethane (80-125%)</i>								
<i>Surrogate: Toluene-d8 (80-120%)</i>								
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>								

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Project ID: ARCO 0206, Santa Ana

Report Number: IOJ0882

Sampled: 10/13/05

Received: 10/13/05

BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers			
Sample ID: IOJ0882-13 (CSB-6-25 - Soil)											
Reporting Units: mg/kg											
Benzene	EPA 8260B	SJ17019	0.0017	ND	0.853	10/17/2005	10/17/2005				
Ethylbenzene	EPA 8260B	SJ17019	0.0017	ND	0.853	10/17/2005	10/17/2005				
Toluene	EPA 8260B	SJ17019	0.0017	ND	0.853	10/17/2005	10/17/2005				
o-Xylene	EPA 8260B	SJ17019	0.0017	ND	0.853	10/17/2005	10/17/2005				
m,p-Xylenes	EPA 8260B	SJ17019	0.0017	ND	0.853	10/17/2005	10/17/2005				
Xylenes, Total	EPA 8260B	SJ17019	0.0034	ND	0.853	10/17/2005	10/17/2005				
Di-isopropyl Ether (DIPE)	EPA 8260B	SJ17019	0.0043	ND	0.853	10/17/2005	10/17/2005				
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	SJ17019	0.0043	ND	0.853	10/17/2005	10/17/2005				
tert-Amyl Methyl Ether (TAME)	EPA 8260B	SJ17019	0.0043	ND	0.853	10/17/2005	10/17/2005				
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	SJ17019	0.0043	ND	0.853	10/17/2005	10/17/2005				
tert-Butanol (TBA)	EPA 8260B	SJ17019	0.043	ND	0.853	10/17/2005	10/17/2005				
Ethanol	EPA 8260B	SJ17019	0.26	ND	0.853	10/17/2005	10/17/2005				
<i>Surrogate: Dibromofluoromethane (80-125%)</i>						114 %					
<i>Surrogate: Toluene-d8 (80-120%)</i>						104 %					
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>						100 %					
Sample ID: IOJ0882-14 (CSB-6-30 - Soil)											
Reporting Units: mg/kg											
Benzene	EPA 8260B	SJ17019	0.0017	ND	0.826	10/17/2005	10/18/2005				
Ethylbenzene	EPA 8260B	SJ17019	0.0017	ND	0.826	10/17/2005	10/18/2005				
Toluene	EPA 8260B	SJ17019	0.0017	ND	0.826	10/17/2005	10/18/2005				
o-Xylene	EPA 8260B	SJ17019	0.0017	ND	0.826	10/17/2005	10/18/2005				
m,p-Xylenes	EPA 8260B	SJ17019	0.0017	ND	0.826	10/17/2005	10/18/2005				
Xylenes, Total	EPA 8260B	SJ17019	0.0033	ND	0.826	10/17/2005	10/18/2005				
Di-isopropyl Ether (DIPE)	EPA 8260B	SJ17019	0.0041	ND	0.826	10/17/2005	10/18/2005				
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	SJ17019	0.0041	ND	0.826	10/17/2005	10/18/2005				
tert-Amyl Methyl Ether (TAME)	EPA 8260B	SJ17019	0.0041	ND	0.826	10/17/2005	10/18/2005				
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	SJ17019	0.0041	0.041	0.826	10/17/2005	10/18/2005				
tert-Butanol (TBA)	EPA 8260B	SJ17019	0.041	ND	0.826	10/17/2005	10/18/2005				
Ethanol	EPA 8260B	SJ17019	0.25	ND	0.826	10/17/2005	10/18/2005				
<i>Surrogate: Dibromofluoromethane (80-125%)</i>						115 %					
<i>Surrogate: Toluene-d8 (80-120%)</i>						104 %					
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>						98 %					

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Project ID: ARCO 0206, Santa Ana

Report Number: IOJ0882

Sampled: 10/13/05

Received: 10/13/05

BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
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Sample ID: IOJ0882-15 (CSB-6-35 - Soil)

Reporting Units: mg/kg

Benzene	EPA 8260B	5J17019	0.0018	ND	0.893	10/17/2005	10/18/2005
Ethylbenzene	EPA 8260B	5J17019	0.0018	ND	0.893	10/17/2005	10/18/2005
Toluene	EPA 8260B	5J17019	0.0018	ND	0.893	10/17/2005	10/18/2005
o-Xylene	EPA 8260B	5J17019	0.0018	ND	0.893	10/17/2005	10/18/2005
m,p-Xylenes	EPA 8260B	5J17019	0.0018	ND	0.893	10/17/2005	10/18/2005
Xylenes, Total	EPA 8260B	5J17019	0.0036	ND	0.893	10/17/2005	10/18/2005
Di-isopropyl Ether (DIPE)	EPA 8260B	5J17019	0.0045	ND	0.893	10/17/2005	10/18/2005
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	5J17019	0.0045	ND	0.893	10/17/2005	10/18/2005
tert-Amyl Methyl Ether (TAME)	EPA 8260B	5J17019	0.0045	ND	0.893	10/17/2005	10/18/2005
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	5J17019	0.0045	0.12	0.893	10/17/2005	10/18/2005
tert-Butanol (TBA)	EPA 8260B	5J17019	0.045	ND	0.893	10/17/2005	10/18/2005
Ethanol	EPA 8260B	5J17019	0.27	ND	0.893	10/17/2005	10/18/2005
<i>Surrogate: Dibromofluoromethane (80-125%)</i>				115 %			
<i>Surrogate: Toluene-d8 (80-120%)</i>				104 %			
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>				101 %			

Sample ID: IOJ0882-16 (CSB-6-40 - Soil)

Reporting Units: mg/kg

Benzene	EPA 8260B	5J17019	0.0020	ND	0.935	10/17/2005	10/18/2005
Ethylbenzene	EPA 8260B	5J17019	0.0020	ND	0.935	10/17/2005	10/18/2005
Toluene	EPA 8260B	5J17019	0.0020	ND	0.935	10/17/2005	10/18/2005
o-Xylene	EPA 8260B	5J17019	0.0020	ND	0.935	10/17/2005	10/18/2005
m,p-Xylenes	EPA 8260B	5J17019	0.0020	ND	0.935	10/17/2005	10/18/2005
Xylenes, Total	EPA 8260B	5J17019	0.0040	ND	0.935	10/17/2005	10/18/2005
Di-isopropyl Ether (DIPE)	EPA 8260B	5J17019	0.0050	ND	0.935	10/17/2005	10/18/2005
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	5J17019	0.0050	ND	0.935	10/17/2005	10/18/2005
tert-Amyl Methyl Ether (TAME)	EPA 8260B	5J17019	0.0050	ND	0.935	10/17/2005	10/18/2005
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	5J17019	0.0050	0.047	0.935	10/17/2005	10/18/2005
tert-Butanol (TBA)	EPA 8260B	5J17019	0.050	ND	0.935	10/17/2005	10/18/2005
Ethanol	EPA 8260B	5J17019	0.30	ND	0.935	10/17/2005	10/18/2005
<i>Surrogate: Dibromofluoromethane (80-125%)</i>				114 %			
<i>Surrogate: Toluene-d8 (80-120%)</i>				102 %			
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>				101 %			

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Report Number: IOJ0882

Sampled: 10/13/05

Received: 10/13/05

BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
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Sample ID: IOJ0882-17 (CSB-6-45 - Soil)

Reporting Units: mg/kg

Benzene	EPA 8260B	SJ17019	0.0025	ND	1.26	10/17/2005	10/18/2005
Ethylbenzene	EPA 8260B	SJ17019	0.0025	ND	1.26	10/17/2005	10/18/2005
Toluene	EPA 8260B	SJ17019	0.0025	ND	1.26	10/17/2005	10/18/2005
o-Xylene	EPA 8260B	SJ17019	0.0025	ND	1.26	10/17/2005	10/18/2005
m,p-Xylenes	EPA 8260B	SJ17019	0.0025	ND	1.26	10/17/2005	10/18/2005
Xylenes, Total	EPA 8260B	SJ17019	0.0051	ND	1.26	10/17/2005	10/18/2005
Di-isopropyl Ether (DIPE)	EPA 8260B	SJ17019	0.0063	ND	1.26	10/17/2005	10/18/2005
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	SJ17019	0.0063	ND	1.26	10/17/2005	10/18/2005
tert-Amyl Methyl Ether (TAME)	EPA 8260B	SJ17019	0.0063	ND	1.26	10/17/2005	10/18/2005
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	SJ17019	0.0063	ND	1.26	10/17/2005	10/18/2005
tert-Butanol (TBA)	EPA 8260B	SJ17019	0.063	ND	1.26	10/17/2005	10/18/2005
Ethanol	EPA 8260B	SJ17019	0.38	ND	1.26	10/17/2005	10/18/2005
<i>Surrogate: Dibromofluoromethane (80-125%)</i>				113 %			
<i>Surrogate: Toluene-d8 (80-120%)</i>				104 %			
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>				100 %			

Sample ID: IOJ0882-18 (CSB-6-50 - Soil)

Reporting Units: mg/kg

Benzene	EPA 8260B	SJ17019	0.0025	ND	1.23	10/17/2005	10/18/2005
Ethylbenzene	EPA 8260B	SJ17019	0.0025	ND	1.23	10/17/2005	10/18/2005
Toluene	EPA 8260B	SJ17019	0.0025	ND	1.23	10/17/2005	10/18/2005
o-Xylene	EPA 8260B	SJ17019	0.0025	ND	1.23	10/17/2005	10/18/2005
m,p-Xylenes	EPA 8260B	SJ17019	0.0025	ND	1.23	10/17/2005	10/18/2005
Xylenes, Total	EPA 8260B	SJ17019	0.0049	ND	1.23	10/17/2005	10/18/2005
Di-isopropyl Ether (DIPE)	EPA 8260B	SJ17019	0.0061	ND	1.23	10/17/2005	10/18/2005
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	SJ17019	0.0061	ND	1.23	10/17/2005	10/18/2005
tert-Amyl Methyl Ether (TAME)	EPA 8260B	SJ17019	0.0061	ND	1.23	10/17/2005	10/18/2005
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	SJ17019	0.0061	ND	1.23	10/17/2005	10/18/2005
tert-Butanol (TBA)	EPA 8260B	SJ17019	0.061	ND	1.23	10/17/2005	10/18/2005
Ethanol	EPA 8260B	SJ17019	0.37	ND	1.23	10/17/2005	10/18/2005
<i>Surrogate: Dibromofluoromethane (80-125%)</i>				118 %			
<i>Surrogate: Toluene-d8 (80-120%)</i>				103 %			
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>				99 %			

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Project ID: ARCO 0206, Santa Ana

Report Number: IOJ0882

Sampled: 10/13/05

Received: 10/13/05

BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOJ0882-19 (CSB-5-10 - Soil)								
Reporting Units: mg/kg								
Benzene	EPA 8260B	SJ17019	0.0018	ND	0.882	10/17/2005	10/18/2005	
Ethylbenzene	EPA 8260B	SJ17019	0.0018	ND	0.882	10/17/2005	10/18/2005	
Toluene	EPA 8260B	SJ17019	0.0018	ND	0.882	10/17/2005	10/18/2005	
o-Xylene	EPA 8260B	SJ17019	0.0018	ND	0.882	10/17/2005	10/18/2005	
m,p-Xylenes	EPA 8260B	SJ17019	0.0018	ND	0.882	10/17/2005	10/18/2005	
Xylenes, Total	EPA 8260B	SJ17019	0.0035	ND	0.882	10/17/2005	10/18/2005	
Di-isopropyl Ether (DIPE)	EPA 8260B	SJ17019	0.0044	ND	0.882	10/17/2005	10/18/2005	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	SJ17019	0.0044	ND	0.882	10/17/2005	10/18/2005	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	SJ17019	0.0044	ND	0.882	10/17/2005	10/18/2005	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	SJ17019	0.0044	ND	0.882	10/17/2005	10/18/2005	
tert-Butanol (TBA)	EPA 8260B	SJ17019	0.044	ND	0.882	10/17/2005	10/18/2005	
Ethanol	EPA 8260B	SJ17019	0.26	ND	0.882	10/17/2005	10/18/2005	
<i>Surrogate: Dibromofluoromethane (80-125%)</i>				115 %				
<i>Surrogate: Toluene-d8 (80-120%)</i>				102 %				
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>				99 %				
Sample ID: IOJ0882-20 (CSB-5-15 - Soil)								
Reporting Units: mg/kg								
Benzene	EPA 8260B	SJ15019	0.45	ND	448	10/15/2005	10/16/2005	
Ethylbenzene	EPA 8260B	SJ15019	0.45	ND	448	10/15/2005	10/16/2005	
Toluene	EPA 8260B	SJ15019	0.45	ND	448	10/15/2005	10/16/2005	
o-Xylene	EPA 8260B	SJ15019	0.45	3.5	448	10/15/2005	10/16/2005	
m,p-Xylenes	EPA 8260B	SJ15019	0.45	2.7	448	10/15/2005	10/16/2005	
Xylenes, Total	EPA 8260B	SJ15019	0.90	6.2	448	10/15/2005	10/16/2005	
Di-isopropyl Ether (DIPE)	EPA 8260B	SJ15019	1.1	ND	448	10/15/2005	10/16/2005	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	SJ15019	1.1	ND	448	10/15/2005	10/16/2005	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	SJ15019	1.1	ND	448	10/15/2005	10/16/2005	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	SJ15019	1.1	ND	448	10/15/2005	10/16/2005	
tert-Butanol (TBA)	EPA 8260B	SJ15019	22	ND	448	10/15/2005	10/16/2005	
Ethanol	EPA 8260B	SJ15019	67	ND	448	10/15/2005	10/16/2005	IO
<i>Surrogate: Dibromofluoromethane (55-140%)</i>				99 %				
<i>Surrogate: Toluene-d8 (60-140%)</i>				100 %				
<i>Surrogate: 4-Bromofluorobenzene (65-140%)</i>				102 %				

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Project ID: ARCO 0206, Santa Ana

Report Number: IOJ0882

Sampled: 10/13/05

Received: 10/13/05

BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOJ0882-21 (CSB-5-20 - Soil)								
Reporting Units: mg/kg								
Benzene	EPA 8260B	5J15019	0.89	ND	894	10/15/2005	10/19/2005	
Ethylbenzene	EPA 8260B	5J15019	0.89	21	894	10/15/2005	10/19/2005	
Toluene	EPA 8260B	5J15019	0.89	25	894	10/15/2005	10/19/2005	
o-Xylene	EPA 8260B	5J15019	0.89	120	894	10/15/2005	10/19/2005	
m,p-Xylenes	EPA 8260B	5J15019	0.89	240	894	10/15/2005	10/19/2005	
Xylenes, Total	EPA 8260B	5J15019	1.8	360	894	10/15/2005	10/19/2005	
Di-isopropyl Ether (DIPE)	EPA 8260B	5J15019	2.2	ND	894	10/15/2005	10/19/2005	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	5J15019	2.2	ND	894	10/15/2005	10/19/2005	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	5J15019	2.2	ND	894	10/15/2005	10/19/2005	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	5J15019	2.2	ND	894	10/15/2005	10/19/2005	
tert-Butanol (TBA)	EPA 8260B	5J15019	45	ND	894	10/15/2005	10/19/2005	
Ethanol	EPA 8260B	5J15019	130	ND	894	10/15/2005	10/19/2005	
<i>Surrogate: Dibromofluoromethane (55-140%)</i>								AX
<i>Surrogate: Toluene-d8 (60-140%)</i>								AX
<i>Surrogate: 4-Bromofluorobenzene (65-140%)</i>								AX
Sample ID: IOJ0882-22 (CSB-5-25 - Soil)								
Reporting Units: mg/kg								
Benzene	EPA 8260B	5J15019	17	56	17100	10/15/2005	10/20/2005	
Ethylbenzene	EPA 8260B	5J15019	17	380	17100	10/15/2005	10/20/2005	
Toluene	EPA 8260B	5J15019	17	1500	17100	10/15/2005	10/20/2005	
o-Xylene	EPA 8260B	5J15019	17	630	17100	10/15/2005	10/20/2005	
m,p-Xylenes	EPA 8260B	5J15019	17	1700	17100	10/15/2005	10/20/2005	
Xylenes, Total	EPA 8260B	5J15019	34	2300	17100	10/15/2005	10/20/2005	
Di-isopropyl Ether (DIPE)	EPA 8260B	5J15019	43	ND	17100	10/15/2005	10/20/2005	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	5J15019	43	ND	17100	10/15/2005	10/20/2005	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	5J15019	43	ND	17100	10/15/2005	10/20/2005	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	5J15019	43	ND	17100	10/15/2005	10/20/2005	
tert-Butanol (TBA)	EPA 8260B	5J15019	850	ND	17100	10/15/2005	10/20/2005	
Ethanol	EPA 8260B	5J15019	2600	ND	17100	10/15/2005	10/20/2005	
<i>Surrogate: Dibromofluoromethane (55-140%)</i>						*		AX
<i>Surrogate: Toluene-d8 (60-140%)</i>						72 %		AX
<i>Surrogate: 4-Bromofluorobenzene (65-140%)</i>						*		AX

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Sampled: 10/13/05

Received: 10/13/05

BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOJ0882-23 (CSB-5-30 - Soil)								
Reporting Units: mg/kg								
Benzene	EPA 8260B	5J15019	2.1	24	2090	10/15/2005	10/20/2005	
Ethylbenzene	EPA 8260B	5J15019	2.1	55	2090	10/15/2005	10/20/2005	
Toluene	EPA 8260B	5J15019	2.1	210	2090	10/15/2005	10/20/2005	
o-Xylene	EPA 8260B	5J15019	2.1	90	2090	10/15/2005	10/20/2005	
m,p-Xylenes	EPA 8260B	5J15019	2.1	230	2090	10/15/2005	10/20/2005	
Xylenes, Total	EPA 8260B	5J15019	4.2	320	2090	10/15/2005	10/20/2005	
Di-isopropyl Ether (DIPE)	EPA 8260B	5J15019	5.2	ND	2090	10/15/2005	10/20/2005	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	5J15019	5.2	ND	2090	10/15/2005	10/20/2005	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	5J15019	5.2	ND	2090	10/15/2005	10/20/2005	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	5J15019	5.2	ND	2090	10/15/2005	10/20/2005	
tert-Butanol (TBA)	EPA 8260B	5J15019	100	ND	2090	10/15/2005	10/20/2005	
Ethanol	EPA 8260B	5J15019	310	ND	2090	10/15/2005	10/20/2005	
<i>Surrogate: Dibromofluoromethane (55-140%)</i>				75 %				AX
<i>Surrogate: Toluene-d8 (60-140%)</i>				92 %				AX
<i>Surrogate: 4-Bromofluorobenzene (65-140%)</i>				94 %				AX
Sample ID: IOJ0882-24 (CSB-5-35 - Soil)								
Reporting Units: mg/kg								
Benzene	EPA 8260B	5J15019	0.090	1.4	90.3	10/15/2005	10/20/2005	
Ethylbenzene	EPA 8260B	5J15019	0.090	0.27	90.3	10/15/2005	10/20/2005	
Toluene	EPA 8260B	5J15019	0.090	3.2	90.3	10/15/2005	10/20/2005	
o-Xylene	EPA 8260B	5J15019	0.090	0.52	90.3	10/15/2005	10/20/2005	
m,p-Xylenes	EPA 8260B	5J15019	0.090	1.2	90.3	10/15/2005	10/20/2005	
Xylenes, Total	EPA 8260B	5J15019	0.18	1.7	90.3	10/15/2005	10/20/2005	
Di-isopropyl Ether (DIPE)	EPA 8260B	5J15019	0.23	ND	90.3	10/15/2005	10/20/2005	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	5J15019	0.23	ND	90.3	10/15/2005	10/20/2005	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	5J15019	0.23	ND	90.3	10/15/2005	10/20/2005	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	5J15019	0.23	ND	90.3	10/15/2005	10/20/2005	
tert-Butanol (TBA)	EPA 8260B	5J15019	4.5	ND	90.3	10/15/2005	10/20/2005	
Ethanol	EPA 8260B	5J15019	14	ND	90.3	10/15/2005	10/20/2005	
<i>Surrogate: Dibromofluoromethane (55-140%)</i>				96 %				
<i>Surrogate: Toluene-d8 (60-140%)</i>				99 %				
<i>Surrogate: 4-Bromofluorobenzene (65-140%)</i>				85 %				

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Project ID: ARCO 0206, Santa Ana

Report Number: IOJ0882

Sampled: 10/13/05

Received: 10/13/05

BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
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Sample ID: IOJ0882-25 (CSB-5-40 - Soil)

Reporting Units: mg/kg								
Benzene	EPA 8260B	SJ17019	0.0035	ND	1.76	10/17/2005	10/17/2005	
Ethylbenzene	EPA 8260B	SJ17019	0.0035	ND	1.76	10/17/2005	10/17/2005	
Toluene	EPA 8260B	SJ17019	0.0035	0.018	1.76	10/17/2005	10/17/2005	
o-Xylene	EPA 8260B	SJ17019	0.0035	0.0035	1.76	10/17/2005	10/17/2005	
m,p-Xylenes	EPA 8260B	SJ17019	0.0035	0.011	1.76	10/17/2005	10/17/2005	
Xylenes, Total	EPA 8260B	SJ17019	0.0070	0.015	1.76	10/17/2005	10/17/2005	
Di-isopropyl Ether (DIPE)	EPA 8260B	SJ17019	0.0088	ND	1.76	10/17/2005	10/17/2005	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	SJ17019	0.0088	ND	1.76	10/17/2005	10/17/2005	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	SJ17019	0.0088	ND	1.76	10/17/2005	10/17/2005	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	SJ17019	0.0088	ND	1.76	10/17/2005	10/17/2005	
tert-Butanol (TBA)	EPA 8260B	SJ17019	0.088	ND	1.76	10/17/2005	10/17/2005	
Ethanol	EPA 8260B	SJ17019	0.53	ND	1.76	10/17/2005	10/17/2005	
<i>Surrogate: Dibromofluoromethane (80-125%)</i>				114 %				
<i>Surrogate: Toluene-d8 (80-120%)</i>				104 %				
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>				101 %				

Sample ID: IOJ0882-26 (CSB-5-45 - Soil)

Reporting Units: mg/kg								
Benzene	EPA 8260B	SJ15019	0.13	ND	134	10/15/2005	10/20/2005	
Ethylbenzene	EPA 8260B	SJ15019	0.13	ND	134	10/15/2005	10/20/2005	
Toluene	EPA 8260B	SJ15019	0.13	0.18	134	10/15/2005	10/20/2005	
o-Xylene	EPA 8260B	SJ15019	0.13	ND	134	10/15/2005	10/20/2005	
m,p-Xylenes	EPA 8260B	SJ15019	0.13	0.15	134	10/15/2005	10/20/2005	
Xylenes, Total	EPA 8260B	SJ15019	0.27	ND	134	10/15/2005	10/20/2005	
Di-isopropyl Ether (DIPE)	EPA 8260B	SJ15019	0.34	ND	134	10/15/2005	10/20/2005	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	SJ15019	0.34	ND	134	10/15/2005	10/20/2005	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	SJ15019	0.34	ND	134	10/15/2005	10/20/2005	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	SJ15019	0.34	ND	134	10/15/2005	10/20/2005	
tert-Butanol (TBA)	EPA 8260B	SJ15019	6.7	ND	134	10/15/2005	10/20/2005	
Ethanol	EPA 8260B	SJ15019	20	ND	134	10/15/2005	10/20/2005	
<i>Surrogate: Dibromofluoromethane (55-140%)</i>				92 %				
<i>Surrogate: Toluene-d8 (60-140%)</i>				107 %				
<i>Surrogate: 4-Bromofluorobenzene (65-140%)</i>				96 %				

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Project ID: ARCO 0206, Santa Ana

Report Number: IOJ0882

Sampled: 10/13/05

Received: 10/13/05

BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOJ0882-27 (CSB-5-50 - Soil)								
Reporting Units: mg/kg								
Benzene	EPA 8260B	5J18018	0.0018	ND	0.898	10/18/2005	10/19/2005	
Ethylbenzene	EPA 8260B	5J18018	0.0018	ND	0.898	10/18/2005	10/19/2005	
Toluene	EPA 8260B	5J18018	0.0018	0.0030	0.898	10/18/2005	10/19/2005	
o-Xylene	EPA 8260B	5J18018	0.0018	ND	0.898	10/18/2005	10/19/2005	
m,p-Xylenes	EPA 8260B	5J18018	0.0018	0.0032	0.898	10/18/2005	10/19/2005	
Xylenes, Total	EPA 8260B	5J18018	0.0036	0.0046	0.898	10/18/2005	10/19/2005	
Di-isopropyl Ether (DIPE)	EPA 8260B	5J18018	0.0045	ND	0.898	10/18/2005	10/19/2005	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	5J18018	0.0045	ND	0.898	10/18/2005	10/19/2005	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	5J18018	0.0045	ND	0.898	10/18/2005	10/19/2005	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	5J18018	0.0045	ND	0.898	10/18/2005	10/19/2005	
tert-Butanol (TBA)	EPA 8260B	5J18018	0.045	ND	0.898	10/18/2005	10/19/2005	
Ethanol	EPA 8260B	5J18018	0.27	ND	0.898	10/18/2005	10/19/2005	IO
<i>Surrogate: Dibromofluoromethane (80-125%)</i>						120 %		
<i>Surrogate: Toluene-d8 (80-120%)</i>						101 %		
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>						95 %		

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Project ID: ARCO 0206, Santa Ana

Report Number: IOJ0882

Sampled: 10/13/05

Received: 10/13/05

METHOD BLANK/QC DATA

VOLATILE FUEL HYDROCARBONS (EPA 5035B/CADHS Mod. 8015)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 5J14051 Extracted: 10/14/05</u>										
Blank Analyzed: 10/14/2005 (5J14051-BLK1)										
Volatile Fuel Hydrocarbons (C6-C12)	ND	0.40	mg/kg							
<i>Surrogate: 4-BFB (FID)</i>	0.0238		mg/kg	0.0200		119	70-135			
<u>LCS Analyzed: 10/14/2005 (5J14051-BS1)</u>										
Volatile Fuel Hydrocarbons (C6-C12)	1.42	0.40	mg/kg	1.60		89	65-135			DU
<i>Surrogate: 4-BFB (FID)</i>	0.0624		mg/kg	0.0600		104	70-135			
<u>LCS Dup Analyzed: 10/14/2005 (5J14051-BSD1)</u>										
Volatile Fuel Hydrocarbons (C6-C12)	1.68	0.40	mg/kg	1.60		105	65-135	17	20	
<i>Surrogate: 4-BFB (FID)</i>	0.0717		mg/kg	0.0600		120	70-135			
<u>Batch: 5J15021 Extracted: 10/15/05</u>										
Blank Analyzed: 10/15/2005 (5J15021-BLK1)										
Volatile Fuel Hydrocarbons (C6-C12)	ND	0.40	mg/kg							
<i>Surrogate: 4-BFB (FID)</i>	0.0237		mg/kg	0.0200		118	70-135			
<u>LCS Analyzed: 10/15/2005 (5J15021-BS1)</u>										
Volatile Fuel Hydrocarbons (C6-C12)	1.67	0.40	mg/kg	1.60		104	65-135			
<i>Surrogate: 4-BFB (FID)</i>	0.0679		mg/kg	0.0600		113	70-135			
<u>Matrix Spike Analyzed: 10/15/2005 (5J15021-MS1)</u>										
Volatile Fuel Hydrocarbons (C6-C12)	0.407	0.33	mg/kg	0.364	ND	112	55-145			
<i>Surrogate: 4-BFB (FID)</i>	0.0183		mg/kg	0.0166		110	70-135			
<u>Matrix Spike Dup Analyzed: 10/15/2005 (5J15021-MSD1)</u>										
Volatile Fuel Hydrocarbons (C6-C12)	0.446	0.32	mg/kg	0.351	ND	127	55-145	9	35	
<i>Surrogate: 4-BFB (FID)</i>	0.0202		mg/kg	0.0159		127	70-135			

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Received: 10/13/05

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VOLATILE FUEL HYDROCARBONS (EPA 5035B/CADHS Mod. 8015)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 5J17059 Extracted: 10/17/05</u>										
Blank Analyzed: 10/17/2005 (5J17059-BLK1)										
Volatile Fuel Hydrocarbons (C6-C12)	ND	20	mg/kg							
Surrogate: 4-BFB (FID)	2.07		mg/kg	2.00		104	70-135			
LCS Analyzed: 10/17/2005 (5J17059-BS1)										
Volatile Fuel Hydrocarbons (C6-C12)	193	40	mg/kg	160		121	65-135			
Surrogate: 4-BFB (FID)	6.38		mg/kg	6.00		106	70-135			
Matrix Spike Analyzed: 10/17/2005 (5J17059-MS1)										
Volatile Fuel Hydrocarbons (C6-C12)	223	80	mg/kg	48.4	150	151	55-145			LM,AY
Surrogate: 4-BFB (FID)	3.08		mg/kg	2.20		140	70-135			LH,AY
Matrix Spike Dup Analyzed: 10/17/2005 (5J17059-MSD1)										
Volatile Fuel Hydrocarbons (C6-C12)	151	80	mg/kg	46.3	150	2	55-145	39	35	LN,AY, LT
Surrogate: 4-BFB (FID)	2.70		mg/kg	2.11		128	70-135			
<u>Batch: 5J19043 Extracted: 10/19/05</u>										
Blank Analyzed: 10/19/2005 (5J19043-BLK1)										
Volatile Fuel Hydrocarbons (C6-C12)	ND	0.40	mg/kg							
Surrogate: 4-BFB (FID)	0.0214		mg/kg	0.0200		107	70-135			
LCS Analyzed: 10/19/2005 (5J19043-BS1)										
Volatile Fuel Hydrocarbons (C6-C12)	1.78	0.40	mg/kg	1.60		111	65-135			CI
Surrogate: 4-BFB (FID)	0.0788		mg/kg	0.0600		131	70-135			
LCS Dup Analyzed: 10/19/2005 (5J19043-BSD1)										
Volatile Fuel Hydrocarbons (C6-C12)	1.77	0.40	mg/kg	1.60		111	65-135	1	20	
Surrogate: 4-BFB (FID)	0.0787		mg/kg	0.0600		131	70-135			

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VOLATILE FUEL HYDROCARBONS (EPA 5035B/CADHS Mod. 8015)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 5J20039 Extracted: 10/20/05</u>										
Blank Analyzed: 10/20/2005 (5J20039-BLK1)										
Volatile Fuel Hydrocarbons (C6-C12)	ND	0.40	mg/kg							
Surrogate: 4-BFB (FID)	0.0192		mg/kg	0.0200		96	70-135			
LCS Analyzed: 10/20/2005 (5J20039-BS1)										
Volatile Fuel Hydrocarbons (C6-C12)	1.53	0.40	mg/kg	1.60		96	65-135			DU
Surrogate: 4-BFB (FID)	0.0755		mg/kg	0.0600		126	70-135			
LCS Dup Analyzed: 10/20/2005 (5J20039-BSD1)										
Volatile Fuel Hydrocarbons (C6-C12)	1.57	0.40	mg/kg	1.60		98	65-135	3	20	
Surrogate: 4-BFB (FID)	0.0766		mg/kg	0.0600		128	70-135			
<u>Batch: 5J20110 Extracted: 10/20/05</u>										
Blank Analyzed: 10/20/2005 (5J20110-BLK1)										
Volatile Fuel Hydrocarbons (C6-C12)	ND	20	mg/kg							
Surrogate: 4-BFB (FID)	1.53		mg/kg	2.00		76	70-135			
LCS Analyzed: 10/20/2005 (5J20110-BS1)										
Volatile Fuel Hydrocarbons (C6-C12)	140	40	mg/kg	160		88	65-135			DU
Surrogate: 4-BFB (FID)	5.26		mg/kg	6.00		88	70-135			
LCS Dup Analyzed: 10/20/2005 (5J20110-BSD1)										
Volatile Fuel Hydrocarbons (C6-C12)	160	40	mg/kg	160		100	65-135	13	20	
Surrogate: 4-BFB (FID)	5.91		mg/kg	6.00		98	70-135			

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Received: 10/13/05

METHOD BLANK/QC DATA

BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
<u>Batch: 5J15019 Extracted: 10/15/05</u>										
Blank Analyzed: 10/17/2005 (5J15019-BLK1)										
Benzene	ND	0.10	mg/kg							
Ethylbenzene	ND	0.10	mg/kg							
Toluene	ND	0.10	mg/kg							
o-Xylene	ND	0.10	mg/kg							
m,p-Xylenes	ND	0.10	mg/kg							
Xylenes, Total	ND	0.20	mg/kg							
Di-isopropyl Ether (DIPE)	ND	0.25	mg/kg							
Ethyl tert-Butyl Ether (ETBE)	ND	0.25	mg/kg							
tert-Amyl Methyl Ether (TAME)	ND	0.25	mg/kg							
Methyl-tert-butyl Ether (MTBE)	ND	0.25	mg/kg							
tert-Butanol (TBA)	ND	5.0	mg/kg							
Ethanol	ND	15	mg/kg							
<i>Surrogate: Dibromoformmethane</i>	2.66		mg/kg	2.50		106	55-140			
<i>Surrogate: Toluene-d8</i>	3.18		mg/kg	2.50		127	60-140			
<i>Surrogate: 4-Bromofluorobenzene</i>	3.04		mg/kg	2.50		122	65-140			
LCS Analyzed: 10/17/2005 (5J15019-BS1)										
Benzene	2.72	0.10	mg/kg	2.50		109	65-120			
Ethylbenzene	2.79	0.10	mg/kg	2.50		112	80-120			
Toluene	2.67	0.10	mg/kg	2.50		107	80-120			
o-Xylene	2.73	0.10	mg/kg	2.50		109	70-125			
m,p-Xylenes	5.71	0.10	mg/kg	5.00		114	70-125			
Xylenes, Total	8.44	0.20	mg/kg	7.50		113	70-125			
Di-isopropyl Ether (DIPE)	2.66	0.25	mg/kg	2.50		106	60-140			
Ethyl tert-Butyl Ether (ETBE)	2.58	0.25	mg/kg	2.50		103	60-140			
tert-Amyl Methyl Ether (TAME)	2.61	0.25	mg/kg	2.50		104	60-145			
Methyl-tert-butyl Ether (MTBE)	2.50	0.25	mg/kg	2.50		100	55-145			
tert-Butanol (TBA)	14.8	5.0	mg/kg	12.5		118	65-140			
Ethanol	36.6	15	mg/kg	25.0		146	35-160			
<i>Surrogate: Dibromoformmethane</i>	2.48		mg/kg	2.50		99	55-140			
<i>Surrogate: Toluene-d8</i>	2.71		mg/kg	2.50		108	60-140			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.89		mg/kg	2.50		116	65-140			

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Delta Env. Consultants - Aliso Viejo
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Attention: Aaron Baird

Project ID: ARCO 0206, Santa Ana

Report Number: IOJ0882

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Sampled: 10/13/05

Received: 10/13/05

METHOD BLANK/QC DATA

BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
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Batch: 5J15019 Extracted: 10/15/05

LCS Dup Analyzed: 10/17/2005 (5J15019-BSD1)

Benzene	2.66	0.10	mg/kg	2.50		106	65-120	2	20
Ethylbenzene	2.76	0.10	mg/kg	2.50		110	80-120	1	20
Toluene	2.60	0.10	mg/kg	2.50		104	80-120	3	20
o-Xylene	2.69	0.10	mg/kg	2.50		108	70-125	1	20
m,p-Xylenes	5.70	0.10	mg/kg	5.00		114	70-125	0	20
Xylenes, Total	8.40	0.20	mg/kg	7.50		112	70-125	1	20
Di-isopropyl Ether (DIPE)	2.45	0.25	mg/kg	2.50		98	60-140	8	20
Ethyl tert-Butyl Ether (ETBE)	2.39	0.25	mg/kg	2.50		96	60-140	8	20
tert-Amyl Methyl Ether (TAME)	2.47	0.25	mg/kg	2.50		99	60-145	6	25
Methyl-tert-butyl Ether (MTBE)	2.40	0.25	mg/kg	2.50		96	55-145	4	25
tert-Butanol (TBA)	14.7	5.0	mg/kg	12.5		118	65-140	1	20
Ethanol	34.9	15	mg/kg	25.0		140	35-160	5	30
<i>Surrogate: Dibromoformmethane</i>	2.33		mg/kg	2.50		93	55-140		
<i>Surrogate: Toluene-d8</i>	2.70		mg/kg	2.50		108	60-140		
<i>Surrogate: 4-Bromofluorobenzene</i>	2.85		mg/kg	2.50		114	65-140		

Matrix Spike Analyzed: 10/18/2005 (5J15019-MS1)

					Source: IOJ0568-07			
Benzene	3.43	0.40	mg/kg	2.54	1.7	68	55-140	
Ethylbenzene	33.2	0.40	mg/kg	2.54	39	-228	50-150	BB
Toluene	8.90	0.40	mg/kg	2.54	9.3	-16	55-140	LN,AY
o-Xylene	51.1	0.40	mg/kg	2.54	61	-390	55-145	BB
m,p-Xylenes	113	0.40	mg/kg	5.08	130	-335	60-145	BB
Xylenes, Total	164	0.80	mg/kg	7.62	190	-341	55-145	BB
Di-isopropyl Ether (DIPE)	2.20	1.0	mg/kg	2.54	ND	87	60-150	
Ethyl tert-Butyl Ether (ETBE)	2.14	1.0	mg/kg	2.54	ND	84	60-150	
tert-Amyl Methyl Ether (TAME)	2.11	1.0	mg/kg	2.54	ND	83	60-150	
Methyl-tert-butyl Ether (MTBE)	1.98	1.0	mg/kg	2.54	ND	78	55-155	
tert-Butanol (TBA)	12.0	20	mg/kg	12.7	ND	94	60-155	
Ethanol	41.6	60	mg/kg	25.4	ND	164	30-160	LM,AY
<i>Surrogate: Dibromoformmethane</i>	2.08		mg/kg	2.54		82	55-140	
<i>Surrogate: Toluene-d8</i>	2.42		mg/kg	2.54		95	60-140	
<i>Surrogate: 4-Bromofluorobenzene</i>	2.57		mg/kg	2.54		101	65-140	

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Pat Abe
Project Manager

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Delta Env. Consultants - Aliso Viejo
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 Aliso Viejo, CA 92656
 Attention: Aaron Baird

Project ID: ARCO 0206, Santa Ana

Report Number: IOJ0882

Sampled: 10/13/05

Received: 10/13/05

METHOD BLANK/QC DATA

BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
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Batch: SJ15019 Extracted: 10/15/05

Matrix Spike Dup Analyzed: 10/18/2005 (SJ15019-MSD1)

					Source: IOJ0568-07					
Benzene	4.36	0.40	mg/kg	2.59	1.7	103	55-140	24	25	
Ethylbenzene	43.2	0.40	mg/kg	2.59	39	162	50-150	26	25	BB, BA,AY
Toluene	12.5	0.40	mg/kg	2.59	9.3	124	55-140	34	25	BA,AY
o-Xylene	67.8	0.40	mg/kg	2.59	61	263	55-145	28	25	BB, BA,AY
m,p-Xylenes	145	0.40	mg/kg	5.18	130	290	60-145	25	25	BB
Xylenes, Total	213	0.80	mg/kg	7.76	190	296	55-145	26	25	BB, BA,AY
Di-isopropyl Ether (DIPE)	2.27	1.0	mg/kg	2.59	ND	88	60-150	3	25	
Ethyl tert-Butyl Ether (ETBE)	2.23	1.0	mg/kg	2.59	ND	86	60-150	4	25	
tert-Amyl Methyl Ether (TAME)	2.24	1.0	mg/kg	2.59	ND	86	60-150	6	25	
Methyl-tert-butyl Ether (MTBE)	2.12	1.0	mg/kg	2.59	ND	82	55-155	7	30	
tert-Butanol (TBA)	12.4	20	mg/kg	12.9	ND	96	60-155	3	25	
Ethanol	ND	60	mg/kg	25.9	ND		30-160		40	
<i>Surrogate: Dibromoformmethane</i>	2.06		mg/kg	2.59		80	55-140			
<i>Surrogate: Toluene-d8</i>	2.53		mg/kg	2.59		98	60-140			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.82		mg/kg	2.59		109	65-140			

Batch: SJ17006 Extracted: 10/17/05

Blank Analyzed: 10/17/2005 (SJ17006-BLK1)

Benzene	ND	0.0020	mg/kg							
Ethylbenzene	ND	0.0020	mg/kg							
Toluene	ND	0.0020	mg/kg							
o-Xylene	ND	0.0020	mg/kg							
m,p-Xylenes	ND	0.0020	mg/kg							
Xylenes, Total	ND	0.0040	mg/kg							
Di-isopropyl Ether (DIPE)	ND	0.0050	mg/kg							
Ethyl tert-Butyl Ether (ETBE)	ND	0.0050	mg/kg							
tert-Amyl Methyl Ether (TAME)	ND	0.0050	mg/kg							
Methyl-tert-butyl Ether (MTBE)	ND	0.0050	mg/kg							
tert-Butanol (TBA)	ND	0.050	mg/kg							
Ethanol	ND	0.30	mg/kg							
<i>Surrogate: Dibromoformmethane</i>	0.0532		mg/kg	0.0500		106	80-125			
<i>Surrogate: Toluene-d8</i>	0.0508		mg/kg	0.0500		102	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0488		mg/kg	0.0500		98	80-120			

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Delta Env. Consultants - Aliso Viejo
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 Aliso Viejo, CA 92656
 Attention: Aaron Baird

Project ID: ARCO 0206, Santa Ana

Report Number: IOJ0882

Sampled: 10/13/05

Received: 10/13/05

METHOD BLANK/QC DATA

BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
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Batch: 5J17006 Extracted: 10/17/05

LCS Analyzed: 10/17/2005 (5J17006-BS1)

Benzene	0.0472	0.0020	mg/kg	0.0500		94	65-120			
Ethylbenzene	0.0477	0.0020	mg/kg	0.0500		95	70-125			
Toluene	0.0449	0.0020	mg/kg	0.0500		90	70-125			
o-Xylene	0.0448	0.0020	mg/kg	0.0500		90	70-125			
m,p-Xylenes	0.0916	0.0020	mg/kg	0.100		92	70-125			
Xylenes, Total	0.136	0.0040	mg/kg	0.150		91	70-125			
Di-isopropyl Ether (DIPE)	0.0529	0.0050	mg/kg	0.0500		106	60-135			
Ethyl tert-Butyl Ether (ETBE)	0.0512	0.0050	mg/kg	0.0500		102	60-135			
tert-Amyl Methyl Ether (TAME)	0.0511	0.0050	mg/kg	0.0500		102	60-140			
Methyl-tert-butyl Ether (MTBE)	0.0519	0.0050	mg/kg	0.0500		104	55-140			
tert-Butanol (TBA)	0.250	0.050	mg/kg	0.250		100	65-135			
Ethanol	0.634	0.30	mg/kg	0.500		127	35-160			
<i>Surrogate: Dibromoformmethane</i>	<i>0.0535</i>		<i>mg/kg</i>	<i>0.0500</i>		<i>107</i>	<i>80-125</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0510</i>		<i>mg/kg</i>	<i>0.0500</i>		<i>102</i>	<i>80-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0496</i>		<i>mg/kg</i>	<i>0.0500</i>		<i>99</i>	<i>80-120</i>			

Matrix Spike Analyzed: 10/17/2005 (5J17006-MS1)

					Source: IOJ0882-03		
Benzene	0.0394	0.0020	mg/kg	0.0468	ND	84	65-130
Ethylbenzene	0.0410	0.0020	mg/kg	0.0468	ND	88	70-130
Toluene	0.0375	0.0020	mg/kg	0.0468	ND	80	70-125
o-Xylene	0.0380	0.0020	mg/kg	0.0468	ND	81	70-125
m,p-Xylenes	0.0774	0.0020	mg/kg	0.0936	ND	83	70-125
Xylenes, Total	0.115	0.0040	mg/kg	0.140	ND	82	70-125
Di-isopropyl Ether (DIPE)	0.0413	0.0050	mg/kg	0.0468	ND	88	60-145
Ethyl tert-Butyl Ether (ETBE)	0.0379	0.0050	mg/kg	0.0468	ND	81	60-140
tert-Amyl Methyl Ether (TAME)	0.0356	0.0050	mg/kg	0.0468	ND	76	60-145
Methyl-tert-butyl Ether (MTBE)	0.0344	0.0050	mg/kg	0.0468	ND	74	55-150
tert-Butanol (TBA)	0.231	0.050	mg/kg	0.234	ND	99	65-140
Ethanol	0.467	0.30	mg/kg	0.468	ND	100	25-160
<i>Surrogate: Dibromoformmethane</i>	<i>0.0491</i>		<i>mg/kg</i>	<i>0.0468</i>		<i>105</i>	<i>80-125</i>
<i>Surrogate: Toluene-d8</i>	<i>0.0477</i>		<i>mg/kg</i>	<i>0.0468</i>		<i>102</i>	<i>80-120</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0455</i>		<i>mg/kg</i>	<i>0.0468</i>		<i>97</i>	<i>80-120</i>

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 Attention: Aaron Baird

Project ID: ARCO 0206, Santa Ana

Report Number: IOJ0882

Sampled: 10/13/05

Received: 10/13/05

METHOD BLANK/QC DATA

BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
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Batch: SJ17006 Extracted: 10/17/05

Matrix Spike Dup Analyzed: 10/17/2005 (SJ17006-MSD1)

Benzene	0.0416	0.0020	mg/kg	0.0481	ND	86	65-130	5	20
Ethylbenzene	0.0419	0.0020	mg/kg	0.0481	ND	87	70-130	2	25
Toluene	0.0395	0.0020	mg/kg	0.0481	ND	82	70-125	5	20
o-Xylene	0.0396	0.0020	mg/kg	0.0481	ND	82	70-125	4	25
m,p-Xylenes	0.0798	0.0020	mg/kg	0.0962	ND	83	70-125	3	25
Xylenes, Total	0.119	0.0040	mg/kg	0.144	ND	83	70-125	3	25
Di-isopropyl Ether (DIPE)	0.0458	0.0050	mg/kg	0.0481	ND	95	60-145	10	25
Ethyl tert-Butyl Ether (ETBE)	0.0439	0.0050	mg/kg	0.0481	ND	91	60-140	15	30
tert-Amyl Methyl Ether (TAME)	0.0435	0.0050	mg/kg	0.0481	ND	90	60-145	20	25
Methyl-tert-butyl Ether (MTBE)	0.0441	0.0050	mg/kg	0.0481	ND	92	55-150	25	35
tert-Butanol (TBA)	0.220	0.050	mg/kg	0.240	ND	92	65-140	5	30
Ethanol	0.496	0.30	mg/kg	0.481	ND	103	25-160	6	40
<i>Surrogate: Dibromofluoromethane</i>	<i>0.0511</i>		<i>mg/kg</i>	<i>0.0481</i>		<i>106</i>	<i>80-125</i>		
<i>Surrogate: Toluene-d8</i>	<i>0.0488</i>		<i>mg/kg</i>	<i>0.0481</i>		<i>101</i>	<i>80-120</i>		
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0468</i>		<i>mg/kg</i>	<i>0.0481</i>		<i>97</i>	<i>80-120</i>		

Batch: SJ17019 Extracted: 10/17/05

Blank Analyzed: 10/17/2005 (SJ17019-BLK1)

Benzene	ND	0.0020	mg/kg				
Ethylbenzene	ND	0.0020	mg/kg				
Toluene	ND	0.0020	mg/kg				
o-Xylene	ND	0.0020	mg/kg				
m,p-Xylenes	ND	0.0020	mg/kg				
Xylenes, Total	ND	0.0040	mg/kg				
Di-isopropyl Ether (DIPE)	ND	0.0050	mg/kg				
Ethyl tert-Butyl Ether (ETBE)	ND	0.0050	mg/kg				
tert-Amyl Methyl Ether (TAME)	ND	0.0050	mg/kg				
Methyl-tert-butyl Ether (MTBE)	ND	0.0050	mg/kg				
tert-Butanol (TBA)	ND	0.050	mg/kg				
Ethanol	ND	0.30	mg/kg				
<i>Surrogate: Dibromofluoromethane</i>	<i>0.0542</i>		<i>mg/kg</i>	<i>0.0500</i>		<i>108</i>	<i>80-125</i>
<i>Surrogate: Toluene-d8</i>	<i>0.0518</i>		<i>mg/kg</i>	<i>0.0500</i>		<i>104</i>	<i>80-120</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0489</i>		<i>mg/kg</i>	<i>0.0500</i>		<i>98</i>	<i>80-120</i>

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 Attention: Aaron Baird

Project ID: ARCO 0206, Santa Ana

Report Number: IOJ0882

Sampled: 10/13/05

Received: 10/13/05

METHOD BLANK/QC DATA

BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
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Batch: 5J17019 Extracted: 10/17/05

LCS Analyzed: 10/17/2005 (5J17019-BS1)

Benzene	0.0520	0.0020	mg/kg	0.0500		104	65-120			
Ethylbenzene	0.0516	0.0020	mg/kg	0.0500		103	70-125			
Toluene	0.0486	0.0020	mg/kg	0.0500		97	70-125			
o-Xylene	0.0485	0.0020	mg/kg	0.0500		97	70-125			
m,p-Xylenes	0.0971	0.0020	mg/kg	0.100		97	70-125			
Xylenes, Total	0.146	0.0040	mg/kg	0.150		97	70-125			
Di-isopropyl Ether (DIPE)	0.0595	0.0050	mg/kg	0.0500		119	60-135			
Ethyl tert-Butyl Ether (ETBE)	0.0589	0.0050	mg/kg	0.0500		118	60-135			
tert-Amyl Methyl Ether (TAME)	0.0591	0.0050	mg/kg	0.0500		118	60-140			
Methyl-tert-butyl Ether (MTBE)	0.0606	0.0050	mg/kg	0.0500		121	55-140			
tert-Butanol (TBA)	0.245	0.050	mg/kg	0.250		98	65-135			
Ethanol	0.584	0.30	mg/kg	0.500		117	35-160			
<i>Surrogate: Dibromoiodomethane</i>	<i>0.0573</i>		<i>mg/kg</i>	<i>0.0500</i>		<i>115</i>	<i>80-125</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0515</i>		<i>mg/kg</i>	<i>0.0500</i>		<i>103</i>	<i>80-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0507</i>		<i>mg/kg</i>	<i>0.0500</i>		<i>101</i>	<i>80-120</i>			

Matrix Spike Analyzed: 10/17/2005 (5J17019-MS1)

					Source: IOJ0882-25		
Benzene	0.0776	0.0029	mg/kg	0.0720	0.0027	104	65-130
Ethylbenzene	0.0771	0.0029	mg/kg	0.0720	0.0026	103	70-130
Toluene	0.0864	0.0029	mg/kg	0.0720	0.018	95	70-125
o-Xylene	0.0744	0.0029	mg/kg	0.0720	0.0035	98	70-125
m,p-Xylenes	0.151	0.0029	mg/kg	0.144	0.011	97	70-125
Xylenes, Total	0.225	0.0058	mg/kg	0.216	0.015	97	70-125
Di-isopropyl Ether (DIPE)	0.0822	0.0072	mg/kg	0.0720	ND	114	60-145
Ethyl tert-Butyl Ether (ETBE)	0.0783	0.0072	mg/kg	0.0720	ND	109	60-140
tert-Amyl Methyl Ether (TAME)	0.0766	0.0072	mg/kg	0.0720	ND	106	60-145
Methyl-tert-butyl Ether (MTBE)	0.0776	0.0072	mg/kg	0.0720	ND	108	55-150
tert-Butanol (TBA)	0.358	0.072	mg/kg	0.360	ND	99	65-140
Ethanol	0.899	0.43	mg/kg	0.720	ND	125	25-160
<i>Surrogate: Dibromoiodomethane</i>	<i>0.0801</i>		<i>mg/kg</i>	<i>0.0720</i>		<i>111</i>	<i>80-125</i>
<i>Surrogate: Toluene-d8</i>	<i>0.0744</i>		<i>mg/kg</i>	<i>0.0720</i>		<i>103</i>	<i>80-120</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0724</i>		<i>mg/kg</i>	<i>0.0720</i>		<i>101</i>	<i>80-120</i>

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 Pat Abe
 Project Manager

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Delta Env. Consultants - Aliso Viejo
 27141 Aliso Creek Road, Suite 270
 Aliso Viejo, CA 92656
 Attention: Aaron Baird

Project ID: ARCO 0206, Santa Ana

Report Number: IOJ0882

Sampled: 10/13/05

Received: 10/13/05

METHOD BLANK/QC DATA

BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-----------------

Batch: 5J17019 Extracted: 10/17/05

Matrix Spike Dup Analyzed: 10/17/2005 (5J17019-MSD1)							Source: IOJ0882-25			LT
Benzene	0.0521	0.0020	mg/kg	0.0493	0.0027	100	65-130	39	20	
Ethylbenzene	0.0516	0.0020	mg/kg	0.0493	0.0026	99	70-130	40	25	
Toluene	0.0644	0.0020	mg/kg	0.0493	0.018	94	70-125	29	20	
o-Xylene	0.0498	0.0020	mg/kg	0.0493	0.0035	94	70-125	40	25	
m,p-Xylenes	0.103	0.0020	mg/kg	0.0986	0.011	93	70-125	38	25	
Xylenes, Total	0.153	0.0040	mg/kg	0.148	0.015	93	70-125	38	25	
Di-isopropyl Ether (DIPE)	0.0544	0.0050	mg/kg	0.0493	ND	110	60-145	41	25	
Ethyl tert-Butyl Ether (ETBE)	0.0535	0.0050	mg/kg	0.0493	ND	109	60-140	38	30	
tert-Amyl Methyl Ether (TAME)	0.0537	0.0050	mg/kg	0.0493	ND	109	60-145	35	25	
Methyl-tert-butyl Ether (MTBE)	0.0565	0.0050	mg/kg	0.0493	ND	115	55-150	31	35	
tert-Butanol (TBA)	0.226	0.050	mg/kg	0.247	ND	91	65-140	45	30	
Ethanol	0.501	0.30	mg/kg	0.493	ND	102	25-160	57	40	
<i>Surrogate: Dibromoiodomethane</i>	<i>0.0554</i>		<i>mg/kg</i>	<i>0.0493</i>		<i>112</i>	<i>80-125</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0513</i>		<i>mg/kg</i>	<i>0.0493</i>		<i>104</i>	<i>80-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0494</i>		<i>mg/kg</i>	<i>0.0493</i>		<i>100</i>	<i>80-120</i>			

Batch: 5J18018 Extracted: 10/18/05

Blank Analyzed: 10/18/2005 (5J18018-BLK1)						
Benzene	ND	0.0020	mg/kg			
Ethylbenzene	ND	0.0020	mg/kg			
Toluene	ND	0.0020	mg/kg			
o-Xylene	ND	0.0020	mg/kg			
m,p-Xylenes	ND	0.0020	mg/kg			
Xylenes, Total	ND	0.0040	mg/kg			
Di-isopropyl Ether (DIPE)	ND	0.0050	mg/kg			
Ethyl tert-Butyl Ether (ETBE)	ND	0.0050	mg/kg			
tert-Amyl Methyl Ether (TAME)	ND	0.0050	mg/kg			
Methyl-tert-butyl Ether (MTBE)	ND	0.0050	mg/kg			
tert-Butanol (TBA)	ND	0.050	mg/kg			
Ethanol	ND	0.30	mg/kg			
<i>Surrogate: Dibromoiodomethane</i>	<i>0.0562</i>		<i>mg/kg</i>	<i>0.0500</i>		<i>112</i>
<i>Surrogate: Toluene-d8</i>	<i>0.0516</i>		<i>mg/kg</i>	<i>0.0500</i>		<i>103</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0489</i>		<i>mg/kg</i>	<i>0.0500</i>		<i>98</i>
						<i>80-120</i>

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Delta Env. Consultants - Aliso Viejo
 27141 Aliso Creek Road, Suite 270
 Aliso Viejo, CA 92656
 Attention: Aaron Baird

Project ID: ARCO 0206, Santa Ana

Report Number: IOJ0882

Sampled: 10/13/05

Received: 10/13/05

METHOD BLANK/QC DATA

BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
<u>Batch: 5J18018 Extracted: 10/18/05</u>										
LCS Analyzed: 10/18/2005 (5J18018-BS1)										DU
Benzene	0.0488	0.0020	mg/kg	0.0500		98	65-120			
Ethylbenzene	0.0507	0.0020	mg/kg	0.0500		101	70-125			
Toluene	0.0458	0.0020	mg/kg	0.0500		92	70-125			
o-Xylene	0.0477	0.0020	mg/kg	0.0500		95	70-125			
m,p-Xylenes	0.0947	0.0020	mg/kg	0.100		95	70-125			
Xylenes, Total	0.142	0.0040	mg/kg	0.150		95	70-125			
Di-isopropyl Ether (DIPE)	0.0510	0.0050	mg/kg	0.0500		102	60-135			
Ethyl tert-Butyl Ether (ETBE)	0.0464	0.0050	mg/kg	0.0500		93	60-135			
tert-Amyl Methyl Ether (TAME)	0.0437	0.0050	mg/kg	0.0500		87	60-140			
Methyl-tert-butyl Ether (MTBE)	0.0432	0.0050	mg/kg	0.0500		86	55-140			
tert-Butanol (TBA)	0.229	0.050	mg/kg	0.250		92	65-135			
Ethanol	0.586	0.30	mg/kg	0.500		117	35-160			
<i>Surrogate: Dibromofluoromethane</i>	<i>0.0537</i>		<i>mg/kg</i>	<i>0.0500</i>		<i>107</i>	<i>80-125</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0501</i>		<i>mg/kg</i>	<i>0.0500</i>		<i>100</i>	<i>80-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0487</i>		<i>mg/kg</i>	<i>0.0500</i>		<i>97</i>	<i>80-120</i>			
LCS Dup Analyzed: 10/18/2005 (5J18018-BSD1)										
Benzene	0.0483	0.0020	mg/kg	0.0500		97	65-120	1	20	
Ethylbenzene	0.0484	0.0020	mg/kg	0.0500		97	70-125	5	20	
Toluene	0.0454	0.0020	mg/kg	0.0500		91	70-125	1	20	
o-Xylene	0.0451	0.0020	mg/kg	0.0500		90	70-125	6	20	
m,p-Xylenes	0.0913	0.0020	mg/kg	0.100		91	70-125	4	20	
Xylenes, Total	0.136	0.0040	mg/kg	0.150		91	70-125	4	20	
Di-isopropyl Ether (DIPE)	0.0519	0.0050	mg/kg	0.0500		104	60-135	2	20	
Ethyl tert-Butyl Ether (ETBE)	0.0499	0.0050	mg/kg	0.0500		100	60-135	7	20	
tert-Amyl Methyl Ether (TAME)	0.0494	0.0050	mg/kg	0.0500		99	60-140	12	20	
Methyl-tert-butyl Ether (MTBE)	0.0510	0.0050	mg/kg	0.0500		102	55-140	17	25	
tert-Butanol (TBA)	0.255	0.050	mg/kg	0.250		102	65-135	11	20	
Ethanol	0.531	0.30	mg/kg	0.500		106	35-160	10	30	
<i>Surrogate: Dibromofluoromethane</i>	<i>0.0549</i>		<i>mg/kg</i>	<i>0.0500</i>		<i>110</i>	<i>80-125</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0508</i>		<i>mg/kg</i>	<i>0.0500</i>		<i>102</i>	<i>80-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0497</i>		<i>mg/kg</i>	<i>0.0500</i>		<i>99</i>	<i>80-120</i>			

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Delta Env. Consultants - Aliso Viejo
 27141 Aliso Creek Road, Suite 270
 Aliso Viejo, CA 92656
 Attention: Aaron Baird

Project ID: ARCO 0206, Santa Ana

Report Number: IOJ0882

Sampled: 10/13/05

Received: 10/13/05

DATA QUALIFIERS AND DEFINITIONS

AX	Sample too dilute to quantify surrogate
BA,AY	The RPD exceeded the method control limit due to sample matrix effects
BB	Sample > 4x spike concentration
CI	See narrative
DU	Insufficient sample quantity for matrix spike/dup matrix spike
EY	Result exceeds normal dynamic range; reported as a min. est.
GS	Reporting limit(s) raised: high level target analyte in sample
IO	Contract limits originate from BP-GCLN Technical Requirements
LG,AY	Due to sample matrix effects, the surrogate recovery was below the acceptance limits
LH,AY	Due to sample matrix effects, the surrogate recovery was outside acceptance limits
LM,AY	The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
LN,AY	The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
LT	The RPD calculation does not provide useful information due to varying sample weights when Encore samplers are used
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

ADDITIONAL COMMENTS

For 8260 analyses:

Due to the high water solubility of alcohols and ketones, the calibration criteria for these compounds is <30% RSD.
 The average % RSD of all compounds in the calibration is 15%, in accordance with EPA methods.

For Volatile Fuel Hydrocarbons (C6-C12):

Volatile Fuel Hydrocarbons (C6-C12) are quantitated against a gasoline standard.

8015 Analysis EDF Parlabel Cross Reference

Analyte	EDF	Parlabel
Volatile Fuel Hydrocarbons (C6-C12)		GROC6C12

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Sampled: 10/13/05

Received: 10/13/05

Certification Summary

Del Mar Analytical, Irvine

Method	Matrix	Nelac	California
EDD	Soil		
EPA 5035	Soil		
EPA 8015B	Soil	X	X
EPA 8015B	Soil-extr	X	X
EPA 8015B	Solid	X	X
EPA 8260B	Soil	X	X
EPA 8260B	Soil-extr	X	X

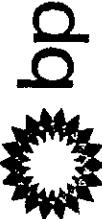
Nevada and NELAP provide analyte specific accreditations. Analyte specific information for Del Mar Analytical may be obtained by contacting the laboratory or visiting our website at www.dmalabs.com.

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Pat Abe
Project Manager

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Chain of Custody Record #257

Project Name: ARCO 206

BP BU/AR Region/Envos Segment: ORANGE - Atlantic Richfield

State or Lead Regulatory Agency: SAFD

Requested Due Date (mm/dd/yy): Standard - 10 day
10/13/05

Page 1 of 3

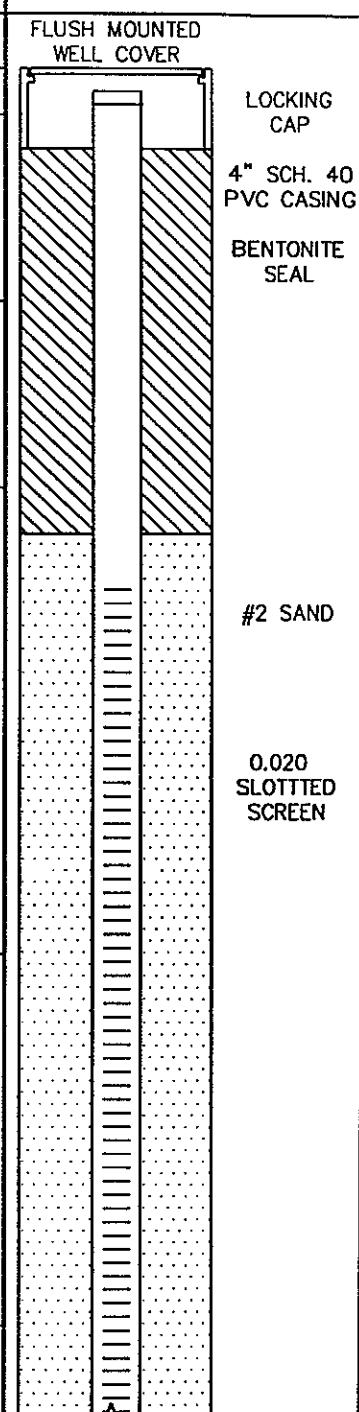
On-site Time:	Temp:
Off-site Time:	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Item No.	Sample Description	Time	Date	Matrix	Laboratory No.	IDJ0882	No. of Contaminants	Unprocessed	HNO ₃	HCl	Methanol	Ice	Requested Analysis		Sample Point Lat/Long and Comments		
													EPA 8260B BTTeX/OXYS/EIOH	TPHg by 8015 Mod			
1	CSB-7-10	8:50	10/13	X			1		X	X						PED = 3, 449+	
2	CSB-7-15	8:57														3, 449+	
3	CSB-7-20	9:04														3, 449+	
4	CSB-7-25	9:10														3, 449+	
5	CSB-7-30	9:17														92.0	
6	CSB-7-35	9:25														φ	
7	CSB-7-40	9:37														2.1	
8	CSB-7-45	9:47														2.6	
9	CSB-7-50	10:00														70.8	
10	CSB-6-610	11:38	V													3, q	
Sampler's Name:		Sean Peacher		Acquiesced By / Affiliation		Date		Time		Accepted By / Affiliation		Date		Time			
Sampler's Company:		Delta Environmental		10/13/05		10/13		15:33		10/13		15:33		15:33			
Shipment Date:		10/13/05		10/13		10/13		16:17		10/13		16:17		16:17			
Shipment Method:		Hand Delivery															
Shipment Tracking No.:																	
Special Instructions:																	

Custody Seals In Place Yes: No Temp Blank Yes: No Cooler Temperature on Receipt: 2 °F/C Trip Blank Yes: No
 Distribution: White Copy - Laboratory / Yellow Copy - BP/Atlantic Richfield Co. / Pink Copy - Consultant/Contractor
 BP COC Rev. 4 10/10/04

ATTACHMENT E

Soil Boring/Well Construction Logs for Wells VW-6 and VW-15

Project: ARCO STATION #206 302 W. FIRST ST. SANTA ANA, CALIFORNIA						Log of Boring: B-6	Page: 1 of 2	
Boring Location:		P# J0009-001-01						
Subcontractor/Equipment: J & H DRILLING COMPANY		Logged By: L McDARGH						
Sampling Method: SPLIT SPOON		Monitoring Device: PID				Comments: Converted to Vadose well VW-6		
Start Date/Time:		Finish Date/Time:						
Final Water: NOT ENCOUNTERED		Stabilized Water Level (BGS):						
Sample Interval Recovery Inches	Boring No.	PID (ppm)	Depth (feet)	USCS Symbol	Surface Elevation: NA	Top of Casing: NA	Boring Abandonment/ Well Construction Details	
					LITHOLOGIC DESCRIPTION (color, grain, size, consistency, moisture, other)			
			0		Asphalt road base			
			1					
			2					
			3					
			4					
			4					
			5		GW SAND AND GRAVEL Dark brown; coarse grained sand; well graded; moist; no odor			
			6					
			7					
			8					
			9					
			10		ML SANDY SILT Light brown; fine grained; moist; slight odor at bottom ring.			
			11					
			12					
			13					
			14					
			15		As above; strong odor.			
			16					
			17					
			18					
			19					
			20		ML CLAYEY SILT Light brown; low plasticity; strong odor. Very strong odor at bottom ring.			
			21					
			22					
			23					
			24					
			25		As above; strong odor; bottom 6 inches increased moisture, higher plasticity			
			26					
			27		As above; very strong odor (26.5' to 28').			
			28		CL SILTY CLAY Light brown; soft; high plasticity; medium moisture.			
			29					
			30					
					(continued)			
								

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Project: ARCO STATION #206 302 W. FIRST ST. SANTA ANA, CALIFORNIA						Log of Boring: B-6	Page: 2 of 2					
Boring Location:												
Subcontractor/Equipment: J & H DRILLING COMPANY												
Sampling Method: SPLIT SPOON				Monitoring Device: OVA								
Start Date/Time:				Finish Date/Time:								
First Water: NOT ENCOUNTERED				Stabilized Water Level (BGS):								
Sample Interval Recovery Inches	Boron/ft.	Pb (ppm)	Depth (feet)	USGS Symbol	Surface Elevation: NA	Top of Casing: NA	Boring Abandonment/ Well Construction Details					
LITHOLOGIC DESCRIPTION (color, grain, size, consistency, moisture, other)												
					continued from page 1							
3 5 7	4000	30			As above; strong odor (29 1/2' to 31')							
		31			CL CLAY Light brown; high moisture; high plasticity; very strong odor (31' to 34').							
		32										
		33										
		34			SILTY CLAY Coarse grained; some rock fragments.							
3 10 17	360	35			Same as above; bottom 6 inches grades to							
		36			SP SAND Light brown; coarse grained; poorly graded; slight odor							
		37										
		38										
		39										
12 28 21	200	40			SP SAND Light brown; coarse grained; well sorted; dry; slight odor; bottom 10-inches grades to							
		41			GW SAND AND GRAVEL Gray; well graded; low moisture; assorted gravel sizes; slight odor							
		42										
		43										
		44										
21 40 2	1	45			GW SAND AND GRAVEL Brownish gray; coarse grained sand; well graded; no odor; assorted gravel/rocks.							
		46										
		47										
		48			CL SILTY CLAY Light brown; low moisture; low plasticity; stiff; no odor; grades to sand .							
10 13 17	*20	49										
		50			TOTAL DEPTH 50 FEET							
		51										
		52										
		53										
		54										
		55										
		56										
		57										
		58			NOTE: *20ppm reading in clay at 50 feet.							
		59										

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5702 Bolsa Ave. Huntington Beach, CA. 92649
Phone: (714)379-3366 Fax: (714)379-3375

Page 1 of 2

Project:	ARCO Station No. 206			PN#:	J0009-001-06	Boring/Well:	VW-15	
Location:	302 West First Street			Well Construction Data				
Date Started:	2 MAY 94	Date Completed:	2 MAY 94	Screen:	0.020 Slot PVC	From:	10 - To: 30	
Logged By:	J. Boller	Checked By:	J. Boller	Pack:	No. 3 Sand	From:	9 - To: 30	
Drilling Co.:	West Hazmat	Driller:		Seal:	Bentonite Chip	From:	1 - To: 9	
Method:	Hollow Stem Auger	Equipment:	CME 75	Grout:		From:	- To:	
Boring Depth:	51.5	Ground Surface Elevation:		Inner Casing:	4-inch Dia. PVC			
Initial GW Level:	N/A	GW Level:	N/A	Outer Casing/Stick Up:	24-Inch Square Well Box			
Depth	Sample #	Sample Number	Blows	PID (ppm)	Lithology	Description	Remarks	Well Construction
0								
5	8		0.3		SW SAND	Red brown, damp, loose, fine to medium grained, subrounded, to subangular, moderate silt, well graded, no odor.		
8	11				ML SILT	Olive brown, moist, soft, low plasticity, micaceous, no odor.		
11	13				SM SILTY SAND	Olive brown, moist, medium dense, fine to medium grained, subrounded, well graded, rare clay, slight odor.		
15	3		1176		SW SAND	Olive brown, moist, medium dense, fine grained, subrounded, well graded, rare silt, moderate odor.		
18	5				ML SANDY SILT	Brown, moist, medium stiff, low plasticity, rare clay, slight odor.		
20	10				CL SILTY CLAY			
25	18		135					
28	18		1261					
30	15							

Continued Next Page

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5702 Bolsa Ave. Huntington Beach, CA. 92649
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Page 2 of 2

Project:				ARCO Station No. 206	PN#:	J0009-001-06	Boring/Well:	VW-15
Location:				302 West First Street				
Depth	Sample	Sample Number	Blows	PID (ppm)	Lithology	Description	Remarks	Well Construction
35	X		7 15 18	76.5	Shaded	CL SILTY CLAY Brown, moist, medium stiff, low plasticity, rare sand, no odor.		35
35	X		8 13 20	0.7	Shaded	As above, No odor.		35
40	X		17 18 20	0.3	Dotted	SW SAND Red brown, moist, medium dense, medium to coarse grained, subrounded to subangular, well graded, rare pebble (to 5cm diameter), no odor.		40
45	X		33 50		Vertical Lines	As above, no odor.		45
50	X		32 50			ML CLAYEY SILT Brown, moist, medium stiff, low plasticity, rare sand, no odor.		50
						Total depth of boring 51.5 feet.		